

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/19/2022

Reviewed on 01/19/2022

## 1 Identification

- **Product identifier**
- **Trade name:** TECHNOVIT 7100 - HARDENER 1
- **Article number:** 14653(H1)
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS01 Exploding bomb

Unst. Expl. H200 Unstable explosive.



GHS02 Flame

Org. Perox. D H242 Heating may cause a fire.



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS01



GHS02



GHS07



GHS08

- **Signal word** Danger

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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· **Hazard-determining components of labeling:**

*dicyclohexyl phthalate**dibenzoyl peroxide*

· **Hazard statements**

*Unstable explosive.**Heating may cause a fire.**Causes serious eye irritation.**May cause an allergic skin reaction.**May damage fertility or the unborn child.*

· **Precautionary statements**

*Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Keep/Store away from clothing/combustible materials.**Keep only in original container.**Avoid breathing dust/fume/gas/mist/vapors/spray**Wash thoroughly after handling.**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves / eye protection / face protection.**Wear personal protective equipment/face protection.**If on skin: Wash with plenty of water.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Specific treatment (see on this label).**If skin irritation or rash occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**Wash contaminated clothing before reuse.**Explosion risk in case of fire.**DO NOT fight fire when fire reaches explosives.**Evacuate area.**Store in accordance with local/regional/national/international regulations.**Store locked up.**Protect from sunlight.**Store at temperatures not exceeding 32°F. Keep cool.**Store away from other materials.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

*Health = 2**Fire = 3**Reactivity = 4**The substance possesses oxidizing properties.*

· **HMIS-ratings (scale 0 - 4)**

*Health = \*2**Fire = 3**Reactivity = 4*

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

84-61-7	dicyclohexyl phthalate	>25- ≤50%
94-36-0	dibenzoyl peroxide	>25- ≤50%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

94-36-0	dibenzoyl peroxide	15 mg/m <sup>3</sup>
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- **PAC-2:**

94-36-0	dibenzoyl peroxide	1,200 mg/m <sup>3</sup>
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· **PAC-3:**

94-36-0 dibenzoyl peroxide

7,000 mg/m<sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
Protect from heat.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

94-36-0 dibenzoyl peroxide	
PEL	Long-term value: 5 mg/m <sup>3</sup>
REL	Long-term value: 5 mg/m <sup>3</sup>
TLV	Long-term value: 5 mg/m <sup>3</sup>
A4	

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May cause fire.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Explosive with or without contact with air.

· **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 1 hPa (0.8 mm Hg)

· **Density at 20 °C (68 °F):** 1.24 g/cm<sup>3</sup> (10.3478 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

**Water:** Insoluble.

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- |   |  |
|---|--|
| <b>· Partition coefficient (n-octanol/water):</b> Not determined. |  |
| <b>· Viscosity:</b>   |  |
| <b>Dynamic:</b>   | Not applicable.                            |
| <b>Kinematic:</b>   | Not applicable.                            |
| <b>· Solvent content:</b>   |  |
| <b>VOC content:</b>   | 0.00 %                                     |
| <b>Solids content:</b>  | 100.0 %                                    |
| <b>· Other information</b>  | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

94-36-0 dibenzoyl peroxide	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.
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- **OSHA-Ca (Occupational Safety Health Administration)**

None of the ingredients is listed.
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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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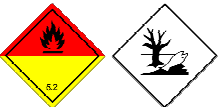
(Contd. of page 6)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> </ul>                  | UN3106   |
| <ul style="list-style-type: none"> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>       |  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> </ul>    | Organic peroxide type D, solid                   |
| <ul style="list-style-type: none"> <li>· <b>DOT</b></li> </ul>                        | 3106 ORGANIC PEROXIDE TYPE D, SOLID              |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>                        | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>                       | ORGANIC PEROXIDE TYPE D, SOLID                   |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>                       | ORGANIC PEROXIDE TYPE D, SOLID                   |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> </ul> |  |
| <ul style="list-style-type: none"> <li>· <b>DOT</b></li> </ul>                        |  |
|    |  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>                      | 5.2 Organic peroxides                            |
| <ul style="list-style-type: none"> <li>· <b>Label</b></li> </ul>                      | 5.2  |
| <ul style="list-style-type: none"> <li>· <b>ADR, IATA</b></li> </ul>                  |  |
|    |  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>                      | 5.2 Organic peroxides                            |
| <ul style="list-style-type: none"> <li>· <b>Label</b></li> </ul>                      | 5.2  |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>                       |  |
|    |  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>                      | 5.2 Organic peroxides                            |

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· <b>Label</b>	5.2
· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> 90 · <b>EMS Number:</b> · <b>Stowage Category</b> · <b>Stowage Code</b> · <b>Segregation Code</b>	Warning: Organic peroxides F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

94-36-0 | dibenzoyl peroxide

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

94-36-0 dibenzoyl peroxide

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS01

GHS02

GHS07

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

dicyclohexyl phthalate

dibenzoyl peroxide

· **Hazard statements**

Unstable explosive.

Heating may cause a fire.

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep/Store away from clothing/combustible materials.

Keep only in original container.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

Wear personal protective equipment/face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Explosion risk in case of fire.

DO NOT fight fire when fire reaches explosives.

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**Trade name: TECHNOVIT 7100 - HARDENER 1**

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Evacuate area.

Store in accordance with local/regional/national/international regulations.

Store locked up.

Protect from sunlight.

Store at temperatures not exceeding 32°F. Keep cool.

Store away from other materials.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Contact:**

· **Date of preparation / last revision** 01/19/2022 / -

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety **Health**

**TLV: Threshold Limit Value**

**PEL: Permissible Exposure Limit**

**REL: Recommended Exposure Limit**

**Unst. Expl.: Explosives – Unstable explosive**

**Org. Perox. D: Organic peroxides – Type C/D**

**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**

**Skin Sens. 1: Skin sensitisation – Category 1**

**Repr. 1B: Reproductive toxicity – Category 1B**

# Safety Data Sheet

## according to WHS Regulations

Printing date 19.01.2022

Revision: 19.01.2022

### 1 Identification

- **Product identifier**
- **Trade name:** TECHNOVIT 7100 - HARDENER 1
- **Article number:** 14653(H1)
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Website: [ems.proscitech.com](http://ems.proscitech.com)
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: [www.emgrid.com.au](http://www.emgrid.com.au)
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS01 exploding bomb

Unst. Expl. H200 Unstable explosives.



GHS02 flame

Org. Perox. D H242 Heating may cause a fire.



GHS08 health hazard

Repr. 1B H360 May damage fertility or the unborn child.

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# Safety Data Sheet

## according to WHS Regulations

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GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS01

GHS02

GHS07

GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*dicyclohexyl phthalate*

*dibenzoyl peroxide*

· **Hazard statements**

*Unstable explosives.*

*Heating may cause a fire.*

*Causes serious eye irritation.*

*May cause an allergic skin reaction.*

*May damage fertility or the unborn child.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*

*Keep/Store away from clothing/combustible materials.*

*Keep only in original container.*

*Avoid breathing dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Contaminated work clothing should not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*Wear personal protective equipment/face protection.*

*IF ON SKIN: Wash with plenty of water.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*Explosion risk in case of fire.*

*DO NOT fight fire when fire reaches explosives.*

*Evacuate area.*

*Store in accordance with local/regional/national/international regulations.*

*Store locked up.*

*Protect from sunlight.*

*Store at temperatures not exceeding 0°C. Keep cool.*

*Store away from other materials.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

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# Safety Data Sheet

## according to WHS Regulations

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Revision: 19.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

84-61-7	dicyclohexyl phthalate	>25-≤50%
94-36-0	dibenzoyl peroxide	>25-≤50%

- **SVHC**

84-61-7	dicyclohexyl phthalate
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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# Safety Data Sheet

## according to WHS Regulations

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See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
  - Protect from heat.
  - Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**94-36-0 dibenzoyl peroxide**

WES	Long-term value: 5 mg/m <sup>3</sup>
	Sen

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the eyes.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Powder

**Colour:** White

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** May cause fire.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Explosive with or without contact with air.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapour pressure at 20 °C:** 1 hPa

- **Density at 20 °C:** 1.24 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with water:**

Insoluble.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

**Dynamic:** Not applicable.

**Kinematic:** Not applicable.

- **Solvent content:**

**Solids content:** 100.0 %

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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· **Other information** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
Repr. 1B

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	UN3106
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	3106 ORGANIC PEROXIDE TYPE D, SOLID ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, SOLID
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IATA</b></li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>	not regulated
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul>	Warning: Organic peroxides. 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> </ul>	500 g Code: E0 Not permitted as Excepted Quantity 2

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· <b>Tunnel restriction code</b>	D
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

94-36-0 dibenzoyl peroxide

S2, S4, S5

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS01

GHS02

GHS07

GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

dicyclohexyl phthalate

dibenzoyl peroxide

· **Hazard statements**

Unstable explosives.

Heating may cause a fire.

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep/Store away from clothing/combustible materials.

Keep only in original container.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear personal protective equipment/face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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# Safety Data Sheet

## according to WHS Regulations

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**Trade name: TECHNOVIT 7100 - HARDENER 1**

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*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*Explosion risk in case of fire.*

*DO NOT fight fire when fire reaches explosives.*

*Evacuate area.*

*Store in accordance with local/regional/national/international regulations.*

*Store locked up.*

*Protect from sunlight.*

*Store at temperatures not exceeding 0°C. Keep cool.*

*Store away from other materials.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P1a** EXPLOSIVES

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

84-61-7 dicyclohexyl phthalate

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Contact:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Explosives – Unstable explosive

Org. Perox. D: Organic peroxides – Type C/D

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/19/2022

Reviewed on 01/19/2022

### 1 Identification

- **Product identifier**
- **Trade name:** TECHNOVIT 7100 - HARDENER 1
- **Article number:** 14653(H1)
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Organic Peroxides – Type D                      H242 Heating may cause a fire.



GHS08 Health hazard

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.



GHS07

Eye Irritation - Category 2A                      H319 Causes serious eye irritation.  
Skin Sensitizer - Category 1                      H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
dicyclohexyl phthalate  
dibenzoyl peroxide
- **Hazard statements**  
Heating may cause a fire.

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# Safety Data Sheet

## according to HPR, Schedule 1

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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*Causes serious eye irritation.*

*May cause an allergic skin reaction.*

*May damage fertility or the unborn child.*

**· Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*Keep only in original packaging.*

*Ground and bond container and receiving equipment.*

*Avoid breathing dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Contaminated work clothing should not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If on skin: Wash with plenty of water.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Store in a well-ventilated place.*

*Store locked up.*

*Protect from sunlight.*

*Store at temperatures not exceeding 0°C.*

*Store separately.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Classification system:**

**· NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 4

*The substance possesses oxidizing properties.*

**· HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 3

Reactivity = 4

### 3 Composition/Information on ingredients

**· Chemical characterization: Mixtures**

**· Description:** Mixture of the substances listed below with nonhazardous additions.

**· Dangerous components:**

84-61-7	dicyclohexyl phthalate	30-60% w/w *
94-36-0	dibenzoyl peroxide	30-60% w/w *

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\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
Protect from heat.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.

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CA

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/19/2022

Reviewed on 01/19/2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 3)

· **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:****94-36-0 dibenzoyl peroxide**EL TWA: 5 mg/m<sup>3</sup>EV TWA: 5 mg/m<sup>3</sup>· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

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(Contd. on page 5)

# Safety Data Sheet

## according to HPR, Schedule 1

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Reviewed on 01/19/2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Powder
· <b>Color:</b>	White
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May cause fire.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Explosive with or without contact with air.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C:** 1 hPa

· <b>Density at 20 °C:</b>	1.24 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Insoluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not applicable.
· <b>Kinematic:</b>	Not applicable.

· **Solvent content:**

· **Solids content:** 100.0 %

· **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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# Safety Data Sheet

## according to HPR, Schedule 1

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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitization:** Sensitization possible through skin contact.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

94-36-0 dibenzoyl peroxide

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.

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(Contd. on page 7)

# Safety Data Sheet

## according to HPR, Schedule 1





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Trade name: **TECHNOVIT 7100 - HARDENER 1**

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### 14 Transport information

<ul style="list-style-type: none"> <li>· UN-Number</li> <li>· DOT/TDG, ADR, IMDG, IATA</li> </ul>	UN3106
<ul style="list-style-type: none"> <li>· UN proper shipping name</li> <li>· DOT/TDG</li> <li>· ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	Organic peroxide type D, solid 3106 ORGANIC PEROXIDE TYPE D, SOLID ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, SOLID
<ul style="list-style-type: none"> <li>· Transport hazard class(es)</li> <li>· DOT/TDG (Transport dangerous goods):</li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>
<ul style="list-style-type: none"> <li>· ADR, IATA</li> </ul>	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>
<ul style="list-style-type: none"> <li>· IMDG</li> </ul>	<div style="display: flex; align-items: center; justify-content: center;">   </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>
<ul style="list-style-type: none"> <li>· Packing group</li> <li>· DOT/TDG, ADR, IMDG, IATA</li> </ul>	Void
<ul style="list-style-type: none"> <li>· Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Stowage Category</li> <li>· Stowage Code</li> <li>· Segregation Code</li> </ul>	Warning: Organic peroxides 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
<ul style="list-style-type: none"> <li>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.

(Contd. on page 8)

CA

# Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/19/2022

Reviewed on 01/19/2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 7)

· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **IMDG**

· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":**

UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

94-36-0 dibenzoyl peroxide

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

94-36-0 dibenzoyl peroxide

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02

GHS07

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

dicyclohexyl phthalate

dibenzoyl peroxide

· **Hazard statements**

Heating may cause a fire.

Causes serious eye irritation.

(Contd. on page 9)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/19/2022

Reviewed on 01/19/2022

**Trade name: TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 8)

*May cause an allergic skin reaction.*

*May damage fertility or the unborn child.*

**· Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*Keep only in original packaging.*

*Ground and bond container and receiving equipment.*

*Avoid breathing dust/fume/gas/mist/vapours/spray.*

*Wash thoroughly after handling.*

*Contaminated work clothing should not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If on skin: Wash with plenty of water.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Store in a well-ventilated place.*

*Store locked up.*

*Protect from sunlight.*

*Store at temperatures not exceeding 0°C.*

*Store separately.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Contact:**

**· Date of the latest revision of the safety data sheet 01/19/2022 / -**

**· Abbreviations and acronyms:**

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** TECHNOVIT 7100 - HARDENER 1
- **Article number:** 14653(H1)
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazards identification

- **Classification of the substance or mixture**



exploding bomb

Unst. Expl. H200 Unstable explosives.



flame

Org. Perox. D H242 Heating may cause a fire.



health hazard

Repr. 1B H360 May damage fertility or the unborn child.



Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 1)

· **Hazard pictograms**

GHS01   GHS02   GHS07   GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:**

dicyclohexyl phthalate  
dibenzoyl peroxide

· **Hazard statements**

Unstable explosives.  
Heating may cause a fire.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
May damage fertility or the unborn child.

· **Precautionary statements**

*IF IN EYES:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
*DO NOT* fight fire when fire reaches explosives.  
Evacuate area.  
Store in accordance with local/regional/national/international regulations.  
Store locked up.  
Protect from sunlight.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterisation:** *Mixtures*· **Description:** *Mixture of substances listed below with nonhazardous additions.*· **Dangerous components:**

84-61-7	dicyclohexyl phthalate ⚠ Repr. 1B, H360; ⚠ Skin Sens. 1, H317	>25-≤50%
94-36-0	dibenzoyl peroxide ⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	>25-≤50%

· **SVHC**

84-61-7	dicyclohexyl phthalate
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· **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

### 4 First aid measures

· **Description of first aid measures**· **After inhalation:**

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

**Trade name: TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 2)

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 3)

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
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(Contd. on page 5)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 4)

<b>Initial boiling point and boiling range:</b>	Undetermined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	May cause fire.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Explosive with or without contact with air.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	1 hPa
· <b>Density at 20 °C:</b>	1.24 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.

(Contd. on page 6)

IL

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 5)

- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
Repr. 1B

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN3106  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 3106 ORGANIC PEROXIDE TYPE D, SOLID<br>ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT<br>ORGANIC PEROXIDE TYPE D, SOLID |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADR, IATA</b></li> </ul>                                      | 5.2 Organic peroxides.  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>   | 5.2 Organic peroxides.  |



(Contd. on page 7)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 6)

· <b>Label</b>	5.2
· <b>IMDG</b>	
· <b>Class</b>	5.2 Organic peroxides.
· <b>Label</b>	5.2
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	not regulated
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Organic peroxides.
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-J,S-R
· <b>Stowage Category</b>	D
· <b>Stowage Code</b>	SW1 Protected from sources of heat.
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	500 g
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS01    GHS02    GHS07    GHS08

- **Signal word** *Danger*

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 7)

- **Hazard-determining components of labelling:**

- dicyclohexyl phthalate

- dibenzoyl peroxide

- **Hazard statements**

- Unstable explosives.

- Heating may cause a fire.

- Causes serious eye irritation.

- May cause an allergic skin reaction.

- May damage fertility or the unborn child.

- **Precautionary statements**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

- Continue rinsing.

- DO NOT fight fire when fire reaches explosives.

- Evacuate area.

- Store in accordance with local/regional/national/international regulations.

- Store locked up.

- Protect from sunlight.

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Seveso category P1a** EXPLOSIVES

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

84-61-7	dicyclohexyl phthalate
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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H241 Heating may cause a fire or explosion.

- H317 May cause an allergic skin reaction.

- H319 Causes serious eye irritation.

- H360 May damage fertility or the unborn child.

- **Contact:**

- **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association

- EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)

- PBT: Persistent, Bioaccumulative and Toxic

- SVHC: Substances of Very High Concern

- vPvB: very Persistent and very Bioaccumulative

- Unst. Expl.: Explosives – Unstable explosive

- Org. Perox. B: Organic peroxides – Type B

- Org. Perox. D: Organic peroxides – Type C/D

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

**Trade name: TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 8)

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*  
*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*  
*Skin Sens. 1: Skin sensitisation – Category 1*  
*Repr. 1B: Reproductive toxicity – Category 1B*

IL

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** TECHNOVIT 7100 - HARDENER 1
- **Article number:** 14653(H1)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



exploding bomb

Unst. Expl. H200 Unstable explosives.



health hazard

Repr. 1B H360D May damage the unborn child.



Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Org. Perox. D H242 Heating may cause a fire.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS01



GHS07



GHS08

(Contd. on page 2)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.01.2022

Revision: 20.01.2022

Trade name: **TECHNOVIT 7100 - HARDENER 1**

(Contd. of page 1)

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

*dicyclohexyl phthalate*

*dibenzoyl peroxide*

- **Hazard statements**

*H200 Unstable explosives.*

*H242 Heating may cause a fire.*

*H319 Causes serious eye irritation.*

*H317 May cause an allergic skin reaction.*

*H360D May damage the unborn child.*

- **Precautionary statements**

*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P373 DO NOT fight fire when fire reaches explosives.*

*P380 Evacuate area.*

*P401 Store in accordance with local/regional/national/international regulations.*

*P405 Store locked up.*

*P410 Protect from sunlight.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.





- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 84-61-7	dicyclohexyl phthalate	>25-≤50%
EINECS: 201-545-9	 <i>Repr. 1B, H360D</i> ;  <i>Skin Sens. 1, H317</i>	
CAS: 94-36-0	dibenzoyl peroxide	>25-≤50%
EINECS: 202-327-6	 <i>Org. Perox. B, H241</i> ;  <i>Eye Irrit. 2, H319</i> ; <i>Skin Sens. 1, H317</i>	

- **SVHC**

84-61-7 dicyclohexyl phthalate

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation:**

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

- **After swallowing:** If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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# Safety data sheet

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

<b>84-61-7 dicyclohexyl phthalate</b>	
WEL	Long-term value: 5 mg/m <sup>3</sup>
<b>94-36-0 dibenzoyl peroxide</b>	
WEL	Long-term value: 5 mg/m <sup>3</sup>

- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	White
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** May cause fire.

- **Decomposition temperature:** Not determined.

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· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Explosive with or without contact with air.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	1 hPa
· <b>Density at 20 °C:</b>	1.24 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Solids content:</b>	100.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
May damage the unborn child.

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- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.


## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN3106  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>                                   | 3106 ORGANIC PEROXIDE TYPE D, SOLID<br>ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT<br>ORGANIC PEROXIDE TYPE D, SOLID |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IATA</b></li> </ul>  |   |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul> | 5.2 Organic peroxides.  |

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· <b>Label</b>	5.2
· <b>IMDG</b>	
	
· <b>Class</b>	5.2 Organic peroxides.
· <b>Label</b>	5.2
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	not regulated
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b> · <b>Stowage Code</b> · <b>Segregation Code</b>	Warning: Organic peroxides. 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	500 g Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P1a** EXPLOSIVES
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 10 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50 t

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· **National regulations:**· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

84-61-7 | dicyclohexyl phthalate

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Explosives – Unstable explosive

Org. Perox. B: Organic peroxides – Type B

Org. Perox. D: Organic peroxides – Type C/D

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

GB

# 化学品安全技术说明书

据根根据据根T 16483-2008, GB/T 17519-2013

打印日期 2022.01.19

在 2022.01.19 审核

## 1 化学品及企业标识

- **产品识别者**
- **化学品中文名称或名称, 化学品俗名或商品名:** TECHNOVIT 7100 - HARDENER 1
- **商品编号:** 14653(H1)
- **相应纯物质或者混合物的相关下位用途及禁止用途** 无相关详细资料。
- **物质或混合物的用途** 实验室化学物
- **安全技术说明书内供应商详细信息**
- **企业名称:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **可获取更多资料的部门:** Product safety department
- **紧急联系电话号码:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 危险性概述

### · 紧急情况概述:

白色, 粉末, 不稳定爆炸物。加热可能起火。造成严重眼刺激。可能导致皮肤过敏反应。可能对生育能力或胎儿造成伤害。

### · GHS危险性类别



爆炸物

不稳定爆炸物

H200 不稳定爆炸物



火焰

有机过氧化物 D型

H242 加热可能起火



健康危害

生殖毒性 第1B类

H360 可能对生育能力或胎儿造成伤害



严重眼损伤/眼刺激 类别2A H319 造成严重眼刺激

敏化(皮肤) 第1类

H317 可能导致皮肤过敏反应

### · 标签要素

- **GHS卷标要素** 本产品根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

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化学品中文名称: 邻苯二甲酸二(2-乙基己)酯  
 化学品俗名或商品名: TECHNIVIT 7100 - HARDENER 1

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## · 象形图



GHS01 GHS02 GHS07 GHS08

## · 警示词 危险

## · 标签上辨别危险的成份:

邻苯二甲酸二环己酯 (&gt;25-≤50 %)

过氧化二苯甲酰[糊状物, 52% &lt; 含量 ≤ 62%] (&gt;25-≤50 %)

## · 危险性说明

不稳定爆炸物

加热可能起火

造成严重眼刺激

可能导致皮肤过敏反应

可能对生育能力或胎儿造成伤害

## · 防范说明

## · 应急措施

如进入眼睛:用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出,取出隐形眼镜。继续冲洗

火烧到爆炸物时切勿救火

撤离现场

## · 贮存

贮存按照地方/区域/国家/国际规章

存放处须加锁

防日晒

## · 处置

处置内装物/容器按照地方/区域/国家/国际规章

## · 其他有害性

· PBT(残留性、生物浓缩性、毒性物质) 及 vPvB(高残留性、高生物浓缩性物质)评价结果

· PBT(残留性、生物浓缩性、毒性物质) 不适用的

· vPvB(高残留性、高生物浓缩性物质): 不适用的

## 3 成分/组成信息

## · 混合物

描述描述描述以下含有无害添加剂的成分组成的混合物

## · 危险的成分:

84-61-7	邻苯二甲酸二环己酯 dicyclohexyl phthalate ⚠ 生殖毒性 第1B类, H360; ⚠ 敏化(皮肤) 第1类, H317	>25-≤50%
94-36-0	过氧化二苯甲酰[糊状物, 52% < 含量 ≤ 62%] dibenzoyl peroxide ⚠ 有机过氧化物 B型, H241; ⚠ 严重眼睛损伤/眼睛刺激性 第2类, H319; 敏化(皮肤) 第1类, H317	>25-≤50%

## 4 急救措施

## · 应急措施要领

吸入吸入吸入

供给新鲜空气并且确保会叫医生.

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# 化学品安全技术说明书

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- 万一病人不清醒时,请让病人侧躺以便移动。
- **皮肤接触:** 马上用水和肥皂进行彻底的冲洗。
- **眼睛接触:** 张开眼睛在流水下冲洗数分钟. 如果症状仍然持续,请咨询医生。
- **食入:** 如果症状仍然持续,请咨询医生。
- **给医生的资料:**
- **最重要的急性症状及其影响** 无相关详细资料。
- **需要及时的医疗处理及特别处理的症状** 无相关详细资料。

## 5 消防措施

- **灭火方法**
- **灭火的方法和灭火剂:** 使用适合四周环境的灭火措施。
- **特别危险性** 无相关详细资料。
- **特殊灭火方法**
- **消防人员特殊的防护装备:** 没有要求特别的措施。

## 6 泄漏应急处理

- **保护措施** 没有要求。
- **环境保护措施:** 切勿让其进入下水道/水面或地下水。
- **密封及净化方法和材料:** 根据第 13 条条款弃置受污染物。
- **参照其他部分**
- 有关安全处理的资料请参阅第 7 节。
- 有关个人防护装备的资料请参阅第 8 节。
- 有关弃置的资料请参阅第 13 节。

## 7 操作处置与储存

- **操作处置**
- **储存:** 打开及处理贮藏器。
- **有关火灾及防止爆炸的资料:**
- 防热。
- 提供呼吸保护装置。
- **混合危险性等安全储存条件**
- **储存:** 储存
- **储存库和容器须要达到的要求:** 没有特别的要求。
- **有关使用一个普通的储存设施来储存的资料:** 不需要。
- **有关储存条件的更多资料:**
- 将容器密封。
- 免受接触热力和直接受阳光照射。
- **具体的最终用户** 无相关详细资料。

## 8 接触控制和个体防护

- **工程控制方法:** 没有进一步数据;见第 7 项。

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## · 控制变数

### · 在工作场需要监控的限值成分

94-36-0 过氧化二苯甲酰[糊状物, 52% < 含量 ≤ 62%]

OEL (CN) PC-TWA: 5 mg/m<sup>3</sup>

PEL (TW) PC-TWA: 5 mg/m<sup>3</sup>

· 额外的资料: 制作期间有效的清单将作为基础来使用.

## · 泄漏控制

### · 个人防护设备:

#### · 一般保护和卫生措施:

远离食品、饮料和饲料.

立即除去所有的不洁的和被污染的衣服.

在休息之前和工作完毕后请清洗双手.

分开储存保护性衣服.

避免和眼睛接触.

避免和眼睛及皮肤接触.

· 呼吸系统防护: 不需要.

### · 手防护:



保护手套

手套的物料必须是不渗透性的, 且能抵抗该产品/物质/添加剂.

基于缺乏测试, 对于产品/制剂/化学混合物, 并不会提供手套材料的建议

选择手套材料时, 请注意材料的渗透时间, 渗透率和降解参数

### · 手套材料

选择合适的手套不单取决于材料, 亦取决于质量特征, 以及来自哪一间生产厂家, 因为该产品是由很多材料配制而成, 手套材料的抵抗力并不可预计, 所以, 必须在使用之前进行检查

· 渗入手套材料的时间 请向劳保手套生产厂家获取准确的破裂时间并观察实际的破裂时间

### · 眼睛防护:



密封的护目镜

## 9 理化特性

### · 有关基本物理及化学特性的信息

#### · 一般说明

外观外观外观

形状形状形状

粉末

颜色颜色颜色

白色

气味气味气味

有特性的

#### · 嗅觉阈限

未决定.

#### · pH值:

不适用的

### · 条件的更改

熔点熔点熔点

未确定的

沸点沸点沸点和沸程: 未确定的

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闪点	闪点	闪点	不适用的
· <b>可燃性 (固体、气体):</b> 可能引起火灾.			
· <b>分解温度:</b> 未决定.			
· <b>自燃温度:</b> 该产品是不自燃的			
· <b>爆炸的危险性:</b> 不论和空气接触与否都具有爆炸性.			
· <b>爆炸极限:</b>			
较低	较低	较低	未决定.
较高	较高	较高	未决定.
· <b>蒸气压 在 20 °C:</b> 1 hPa			
密度	密度	密度	20 °C: 1.24 g/cm <sup>3</sup>
· <b>相对密度</b> 未决定.			
· <b>蒸气密度</b> 不适用的			
· <b>蒸发速率</b> 不适用的			
<b>溶解性</b>			
· <b>水:</b> 不能溶解的			
· <b>辛醇/水分配系数</b> 未决定.			
· <b>黏性:</b>			
动态	动态	动态	不适用的
运动	运动	运动	不适用的
· <b>溶剂成份:</b>			
· <b>固体成份:</b> 100.0 %			
· <b>其他信息</b> 无相关详细资料。			

## 10 稳定性和反应性

- **反应性:** 无相关详细资料。
- **稳定性:** 稳定
- **分解温度:** 如果遵照规格使用则不会分解。
- **有害性:** 未有已知的危险反应。
- **避免条件:** 无相关详细资料。
- **不相容的物质:** 无相关详细资料。
- **危险的分解产物:** 未知有危险的分解产品。

## 11 毒理学信息

- **对毒性学影响的信息**
- **急性毒性:**
- **皮肤刺激:** 有刺激性影响。
- **在眼睛上面:** 刺激的影响。
- **致敏性:** 通过皮肤接触可能造成敏化作用。
- **更多毒物的资料:**
- 根据有关配制的一般欧盟分类指南的计算方法 (刊印在最新版本), 该产品显示以下的危险:  
刺激性的

(在 6 页继续)



# 化学品安全技术说明书

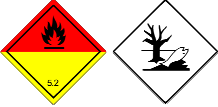
据根根据据根T 16483-2008, GB/T 17519-2013

打印日期 2022.01.19

在 2022.01.19 审核

**化学品中文名称:** 化学品俗名或商品名: **TECHNOVIT 7100 - HARDENER 1**

(在 6 页继续)

标签	5.2
· IMDG	
	
· Class	5.2 有机过氧化物
· Label	5.2
· 包装组别	
· ADR, IMDG, IATA	无效
· 环境危害	
· 海运污染物物质	象征符号 (鱼和树)
· 用户特别预防措施	警告: 有机过氧化物
· 危险编码:	90
· E码 号码 号码	F-J,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· MARPOL73/78(针对船舶引起的海洋污染预防协议附件书根据根据C国际国船载船货编码)的大量	
运送运送运送	不适用的
运输运输运输的资料:	
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "标准规定":	UN 3106 固态 D 型有机过氧化物, 5.2

## 15 法规信息

- 对相应纯物质或者混合物的安全、保健及环境法规/法律 无相关详细资料。
- 危险化学品安全管理条例

· 危险化学品目录

94-36-0 过氧化二苯甲酰[糊状物,52% < 含量≤62%]

- 化学品首次进口及有毒化学品进出口环境管理规定
- 新化学物质环境管理办法

· 国家环境优先物质名录

列出所有成分

- GHS卷标元素 本产品根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

(在 8 页继续)

# 化学品安全技术说明书

据根根据据根T 16483-2008, GB/T 17519-2013

打印日期 2022.01.19

在 2022.01.19 审核

化学品中文名称: 邻苯二甲酸二(2-乙基己)酯  
 化学品英文名称: 邻苯二甲酸二(2-ethylhexyl)酯  
 化学品俗名或商品名: TECHNIVIT 7100 - HARDENER 1

(在 7 页继续)

## · 象形图



GHS01 GHS02 GHS07 GHS08

## · 警示词 危险

## · 标签上辨别危险的成份:

邻苯二甲酸二环己酯 (&gt;25-≤50 %)

过氧化二苯甲酰[糊状物, 52% &lt; 含量 ≤ 62%] (&gt;25-≤50 %)

## · 危险性说明

不稳定爆炸物

加热可能起火

造成严重眼刺激

可能导致皮肤过敏反应

可能对生育能力或胎儿造成伤害

## · 防范说明

## · 应急措施

如进入眼睛:用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出,取出隐形眼镜。继续冲洗

火烧到爆炸物时切勿救火

撤离现场

## · 贮存

贮存按照地方/区域/国家/国际规章

存放处须加锁

防日晒

## · 处置

处置内装物/容器按照地方/区域/国家/国际规章

## · 化学物质安全性评价: 尚未进行化学物质安全性评价

## 16 其他信息

该资料是基于我们目前的知识。然而,这并不构成对任何特定产品特性的担保并且不建立一个法律上有效的合同关系。

## · 联络:

## · 缩写:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: 持久性生物累积性有毒物质

vPvB: very Persistent and very Bioaccumulative

不稳定爆炸物: Explosives – Unstable explosive

有机过氧化物 B型: Organic peroxides – Type B

有机过氧化物 D型: Organic peroxides – Type C/D

严重眼睛损伤/眼睛刺激性 第2类: Serious eye damage/eye irritation – Category 2

严重眼损伤/眼刺激 类别2A: Serious eye damage/eye irritation – Category 2A

敏化(皮肤) 第1类: Skin sensitisation – Category 1

生殖毒性 第1B类: Reproductive toxicity – Category 1B

# Sigurnosno-tehnički list prema 1907/2006/EZ, Članak 31

Nadnevak tiska: 19.01.2022

Revizija: 19.01.2022

## ODJELJAK 1: Identifikacija tvari/smjese i podaci o tvrtki/poduzeću

- **1.1 Identifikacijska oznaka proizvoda**
- **Naziv proizvoda: TECHNOVIT 7100 - HARDENER 1**
- **Šifra proizvoda: 14653(H1)**
- **UFI: T050-H0T2-T008-6UE4**
- **1.2 Relevantne identificirane uporabe tvari ili smjese i uporabe koje se ne preporučuju**  
Nema daljnjih bitnih informacija na raspolaganju.
- **Uporaba tvari/pripravaka kemikalije za laboratorij**
- **1.3 Podaci o dobavljaču koji isporučuje sigurnosno-tehnički list**
- **Proizvođač/uvoznik/distributer:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Daljnje informacije se mogu nabaviti: Product safety department**
- **1.4 Broj telefona za izvanredna stanja**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## ODJELJAK 2: Identifikacija opasnosti

- **2.1 Razvrstavanje tvari ili smjese**
- **Razvrstavanje u skladu s Uredbom (EZ) br. 1272/2008**



GHS01 eksplozivna bomba

Nestab. ekspl. H200 Nestabilni eksplozivi.



GHS08 opasnost za zdravlje

Repr. 1B H360D Može naškoditi nerođenom djetetu.



GHS07

Nadraž. oka 2 H319 Uzrokuje jako nadraživanje oka.

Derm. senz. 1 H317 Može izazvati alergijsku reakciju na koži.

Org. peroks. D H242 Zagrijavanje može uzrokovati požar.

- **2.2 Elementi označavanja**
- **Označivanje sukladno Uredbi (EZ) br. 1272/2008**  
Proizvod je razvrstan i označen sukladno Uredbi o razvrstavanju, označavanju i pakiranju.
- **Piktogrami opasnosti**



GHS01



GHS07



GHS08

(Nastavak na strani 2)

# Sigurnosno-tehnički list prema 1907/2006/EZ, Članak 31

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Revizija: 19.01.2022

Naziv proizvoda: **TECHNOVIT 7100 - HARDENER 1**

(Nastavak sa strane 1)

- **Oznaka opasnosti** Opasnost
- **Oznake koje označavaju opasnost:**  
dicikloheksil ftalat  
dibenzoil peroksid
- **Oznake upozorenja**  
H200 Nestabilni eksplozivni.  
H242 Zagrijavanje može uzrokovati požar.  
H319 Uzrokuje jako nadraživanje oka.  
H317 Može izazvati alergijsku reakciju na koži.  
H360D Može naškoditi nerođenom djetetu.
- **Oznake obavijesti**  
P305+P351+P338 U SLUČAJU DODIRA S OČIMA: oprezno ispirati vodom nekoliko minuta. Ukloniti kontaktne leće ako ih nosite i ako se one lako uklanjaju. Nastaviti ispirati.  
P373 NE gasiti vatru kada plamen može zahvatiti eksplozive.  
P380 Evakuirati područje.  
P401 Spremiti u skladu s lokalnim/regionalnim/nacionalnim/međunarodnim odredbama.  
P405 Skladištiti pod ključem.  
P410 Zaštititi od sunčevog svjetla.  
P501 Odložite sadržaje /spremnike u skladu s lokalnim/regionalnim/nacionalnim/međunarodnim odredbama.
- **2.3 Ostale opasnosti**
- **Rezultati PBT- i vPvB procjena**
- **PBT:** Ne primjenjuje se.
- **vPvB:** Ne primjenjuje se.

## ODJELJAK 3: Sastav/informacije o sastojcima

- **3.2 Kemijska svojstva: Smjese**
- **Opis:** Smjesa od sljedećih navedenih materijala s neopasnim primjesama.

### Sastojci koji pridonose opasnosti proizvoda:

84-61-7	dicikloheksil ftalat ⚠ Repr. 1B, H360D; ⚠ Derm. senz. 1, H317	>25-≤50%
94-36-0	dibenzoil peroksid ⚠ Org. peroks. B, H241; ⚠ Nadraž. oka 2, H319; ⚠ Derm. senz. 1, H317	>25-≤50%

### SVHC

84-61-7	dicikloheksil ftalat
---------	----------------------

- **Dodatne informacije:** Tekst navedenih napomena o opasnostima nalazi se u 16. odjeljku.

## ODJELJAK 4: Mjere prve pomoći

- **4.1 Opis mjera prve pomoći**
- **Nakon udisanja:**  
Omogućiti dotok većih količina svježeg zraka i za svaki slučaj potražiti liječničku pomoć.  
U besvijesnom stanju ležanje i transport u stabilnom bočnom položaju.
- **Nakon dodira s kožom:** Odmah oprati vodom i sapunom te dobro isprati.
- **Nakon dodira s očima:**  
Isprati oči tekućom vodom nekoliko minuta. Oči prilikom ispiranja moraju biti otvorene. U slučaju trajnih smetnji savjetovati se s liječnikom.
- **Nakon gutanja:** U slučaju trajnih smetnji savjetovati se s liječnikom.
- **4.2 Najvažniji simptomi i učinci, akutni i odgođeni** Nema daljnjih bitnih informacija na raspolaganju.

(Nastavak na strani 3)

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Naziv proizvoda: **TECHNOVIT 7100 - HARDENER 1**

(Nastavak sa strane 2)

- **4.3 Navod o slučaju potrebe za hitnom liječničkom pomoći i posebnom obradom**  
Nema daljnjih bitnih informacija na raspolaganju.

## ODJELJAK 5: Mjere gašenja požara

- **5.1 Sredstva za gašenje**
- **Prikladna:** Uskladiti mjere gašenja požara s okolinom.
- **5.2 Posebne opasnosti koje proizlaze iz tvari ili smjese** Nema daljnjih bitnih informacija na raspolaganju.
- **5.3 Savjeti za gasitelje požara**
- **Posebna oprema za zaštitu vatrogasaca:** Nisu potrebite nikakve posebne mjere.

## ODJELJAK 6: Mjere kod slučajnog ispuštanja

- **6.1 Osobne mjere opreza, zaštitna oprema i postupci za izvanredna stanja** Nepotrebno
- **6.2 Mjere zaštite okoliša** Ne smije dospjeti u kanalizaciju/površinske vode/podzemne vode.
- **6.3 Metode i materijal za sprječavanje širenja i čišćenje**  
Kontaminirani materijal zbrinuti kao otpad prema točki 13.
- **6.4 Uputa na druge odjeljke**  
Informacije o sigurnom rukovanje vidi odjeljak 7.  
Informacije o osobnoj zaštitnoj opremi vidi odjeljak 8.  
Informacije o zbrinjavanju vidi odjeljak 13.

## ODJELJAK 7: Rukovanje i skladištenje

- **7.1 Mjere opreza za sigurno rukovanje** Oprezno otvarati spremnike i rukovati istima.
- **Upute za zaštitu od požara i eksplozije:**  
Zaštiti od vrućine.  
Imati u pripravi uređaje za zaštitu disanja.
- **7.2 Uvjeti sigurnog skladištenja, uzimajući u obzir moguće inkompatibilnosti**
- **Skladištenje:**
- **Zahtjevi koje skladišni prostori i spremnici moraju ispunjavati:** Nema posebnih zahtjeva.
- **Upute za zajedničko skladištenje:** Nepotrebno.
- **Dodatne informacije o uvjetima skladištenja:**  
Spremnik moraju biti nepropustno zatvoreni.  
Zaštiti od vrućine i neposredne izloženosti sunčevim zrakama.
- **7.3 Posebna krajnja uporaba ili uporabe** Nema daljnjih bitnih informacija na raspolaganju.

## ODJELJAK 8: Nadzor nad izloženošću/osobna zaštita

- **8.1 Nadzorni parametri**
- **Dodatne upute za oblikovanje tehničkih sustava:** Nema daljnjih podataka, vidi odjeljak 7.

- **Nadzor izloženosti na radnom mjestu:**

### 84-61-7 dicikloheksil ftalat

GVI	Dugotrajna vrijednost: 5 mg/m <sup>3</sup> alergen koža, Repr 1B
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### 94-36-0 dibenzoil peroksid

GVI	Dugotrajna vrijednost: 5 mg/m <sup>3</sup> alergen koža
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(Nastavak na strani 4)



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(Nastavak sa strane 3)

· **Dodatne informacije:** Kao osnova su služili popisi, koji su bili važeći u trenutku izrade.

· **8.2 Nadzor nad izloženošću**

· **Mjere osobne zaštite:**

· **Opće zaštitne i higijenske mjere:**

Držati dalje od živežnih namirnica, pića i krme.

Odmah skinuti zamazanu i tekućinom natopljenu odjeću.

Prije pauze i kraja radnog vremena oprati ruke.

Zaštitnu odjeću čuvati odvojeno.

Izbjegavati dodir s očima.

Izbjegavati dodir s očima i kožom.

· **Zaštita organa za disanje:** Nepotrebno.

· **Zaštita ruku:**



Zaštitne rukavice

Materijal za rukavice mora biti nepropustan i postojan na proizvod / tvar /pripravak.

S obzirom da nema ispitivanja, ne može se dati preporuka za materijal za rukavice za proizvod / pripremu / mješavinu kemikalija.

Kod odabira materijala za rukavice obratiti pozornost na vrijeme perforacije materijala, stupanj permeacije i degradaciju.

· **Materijal za rukavice**

Odabir prikladnih rukavica ovisi ne samo o materijalu, već i o drugim obilježjima kvalitete i različit je od proizvođača do proizvođača. Kako proizvod predstavlja spoj nekoliko različitih materijala, postojanost materijala za rukavice ne može se izračunati unaprijed i stoga se mora provjeriti prije uporabe.

· **Vrijeme prodiranja materijala za rukavice**

Točno vrijeme perforacije materijala može se saznati kod proizvođača zaštitnih rukavica i treba ga se pridržavati.

· **zaštita očiju:**



Zaštitne naočale, koje nepropustno naliježu

## ODJELJAK 9: Fizikalna i kemijska svojstva

· **9.1 Informacije o osnovnim fizikalnim i kemijskim svojstvima**

· **Opće informacije**

· **Izgled:**

**Oblik:** Prašak

**Boja:** Bijel

· **Miris:** Karakterističan

· **Prag mirisa:** Nije određeno.

· **pH vrijednost:** Nije primjenjiv.

· **Promjena stanja**

**Talište/ledište:** Neodređen.

**Početno vrelište i raspon vrenja:** Neodređen.

· **Plamište:** Nije primjenjiv.

· **Zapaljivost (kruta tvar, plin):** Može uzrokovati požar.

(Nastavak na strani 5)

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Revizija: 19.01.2022

**Naziv proizvoda: TECHNOVIT 7100 - HARDENER 1**

(Nastavak sa strane 4)

· <b>Temperatura raspada:</b>	Nije određeno.
· <b>Temperatura samozapaljenja:</b>	Proizvod nije samozapaljiv.
· <b>Eksplzivna svojstva:</b>	Eksplzivno u dodiru ili bez dodira sa zrakom.
· <b>Granice eksplozivnosti:</b>	
Donja:	Nije određeno.
Gornja:	Nije određeno.
· <b>Tlak pare kod 20 °C:</b>	1 hPa
· <b>Gustoća kod 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Relativna gustoća</b>	Nije određeno.
· <b>Gustoća pare</b>	Nije primjenjiv.
· <b>Brzina isparavanja</b>	Nije primjenjiv.
· <b>Topivost u / Miješanje s vodom:</b>	Netopiv.
· <b>Koeficijent raspodjele: n-oktanol/voda:</b>	Nije određeno.
· <b>Viskoznost:</b>	
dinamička:	Nije primjenjiv.
kinematička:	Nije primjenjiv.
· <b>Koncentracija otapala:</b>	
<b>Koncentracija čvrstog tijela:</b>	100,0 %
· <b>9.2 Ostale informacije</b>	Nema daljnjih bitnih informacija na raspolaganju.

### ODJELJAK 10: Stabilnost i reaktivnost

- **10.1 Reaktivnost** Nema daljnjih bitnih informacija na raspolaganju.
- **10.2 Kemijska stabilnost**
- **Termičko raspadanje / Uvjeti koje treba izbjegavati:** Ne rastvara se kod predviđene uporabe.
- **10.3 Mogućnost opasnih reakcija** Nisu poznate opasne reakcije.
- **10.4 Uvjeti koje treba izbjegavati** Nema daljnjih bitnih informacija na raspolaganju.
- **10.5 Inkompatibilni materijali** Nema daljnjih bitnih informacija na raspolaganju.
- **10.6 Opasni proizvodi raspadanja** Nisu poznati nikakvi opasni proizvodi rastvaranja.

### ODJELJAK 11: Toksikološke informacije

- **11.1 Informacije o toksikološkim učincima**
- **Akutna toksičnost** Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **Primarno nadražujuće djelovanje:**
- **Nagrivanje/nadraživanje kože**  
Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **Ozbiljno oštećenje/nadraživanje očiju**  
Uzrokuje jako nadraživanje oka.
- **Izazivanje preosjetljivosti dišnih putova ili kože**  
Može izazvati alergijsku reakciju na koži.

(Nastavak na strani 6)

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(Nastavak sa strane 5)

- **Informacije o sljedećim grupama potencijalnih učinaka:**
- **CMR djelovanje (kancerogeno, mutageno i za reproduktivni sistem toksično djelovanje)**
- **Mutageni učinak na spolne stanice**  
Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **Karcinogenost** Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **Reproduktivna toksičnost**  
Može naškoditi nerođenom djetetu.
- **TCO – jednokratno izlaganje**  
Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **TCO – ponavljano izlaganje**  
Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.
- **Opasnost od aspiracije** Temeljem dostupnih podataka razvidno je da nisu ispunjeni kriteriji za razvrstavanje.

## ODJELJAK 12: Ekološke informacije

- **12.1 Toksičnost**
- **Akvatična toksičnost:** Nema daljnjih bitnih informacija na raspolaganju.
- **12.2 Postojanost i razgradivost** Nema daljnjih bitnih informacija na raspolaganju.
- **12.3 Bioakumulacijski potencijal** Nema daljnjih bitnih informacija na raspolaganju.
- **12.4 Pokretljivost u tlu** Nema daljnjih bitnih informacija na raspolaganju.
- **Daljnje ekološke upute:**
- **Opće upute:**  
Klasa zagađenja vode 1 (Samostupnjevanje): slabo zagađuje vodu  
Ne dopustiti da nerazrijeđen, odn. u većim količinama dopije u podzemene vode, vodu ili kanalizaciju.
- **12.5 Rezultati ocjenjivanja svojstava PBT i vPvB**
- **PBT:** Nije primjenjiv.
- **vPvB:** Nije primjenjiv.
- **12.6 Ostali štetni učinci** Nema daljnjih bitnih informacija na raspolaganju.

## ODJELJAK 13: Zbrinjavanje

- **13.1 Metode obrade otpada**
- **Preporuka:** Ne smije se zbrinjavati zajedno s komunalnim otpadom. Ne smije dospjeti u kanalizaciju.
- **Onečišćena ambalaža:**
- **Preporuka:** Odlaganje shodno propisima nadležnih organa.

## ODJELJAK 14: Informacije o prijevozu

- |  |  |
|--|--|
| · <b>14.1 UN broj</b>                          |  |
| · <b>ADR, IMDG, IATA</b>                       | UN3106   |
| · <b>14.2 Pravilno otpremno ime prema UN-u</b> |  |
| · <b>ADR</b>                                   | 3106 ORGANSKI PEROKSID TIP D, KRUTI              |
| · <b>IMDG</b>                                  | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| · <b>IATA</b>                                  | ORGANIC PEROXIDE TYPE D, SOLID                   |

(Nastavak na strani 7)

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## · 14.3 Razred(i) opasnosti pri prijevozu

· ADR, IATA



· klasa

5.2 organski peroksidi

· Popis opasnosti

5.2

## · IMDG



· Class

5.2 organski peroksidi

· Label

5.2

## · 14.4 Skupina pakiranja

· ADR, IMDG, IATA

poništava

## · 14.5 Opasnosti za okoliš

· Zagadivač mora:

Simbol (ribe i stabla)

## · 14.6 Posebne mjere opreza za korisnika

Upozorenje: organski peroksidi

· Oznaka opasnosti (Kemler-broj):

90

· EMS-broj:

F-J,S-R

· Stowage Category

D

· Stowage Code

SW1 Protected from sources of heat.

· Segregation Code

SG35 Stow "separated from" SGG1-acids

SG36 Stow "separated from" SGG18-alkalis.

## · 14.7 Prijevoz u razlivenom stanju u skladu s Prilogom

II. Konvenciji MARPOL i Kodeksom IBC

Nije primjenjiv.

## · Transport/daljnji podaci:

· ADR

· Ograničene količine

500 g

· Izuzete količine (EQ)

Oznaka: E0

Nije dopušteno prevoziti kao izuzete količine

· Prijevozna kategorija

2

· Tunelska restriksijska oznaka

D

## · IMDG

· Limited quantities (LQ)

5 kg

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· UN "Regulacija modela":

UN 3106 ORGANSKI PEROKSID TIP D, KRUTI, 5.2

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## ODJELJAK 15: Informacije o propisima

### · 15.1 Propisi u području sigurnosti, zdravlja i okoliša/posebni propisi za tvar ili smjesu

- Direktiva 2012/18/EU
- Imena opasnih tvari – **PRILOG I** Nijedan sastojak nije na popisu
- Seveso kategorije **P1a EKSPLOZIVI**
- Propisana količina (u tonama) za primjenu - zahtjeva niže razine 10 t
- Propisana količina (u tonama) za primjenu - zahtjeva više razine 50 t
- UREDBA (EZ) br. 1907/2006 **PRILOG XVII**. Uvjeti ograničenja: 30

· Direktiva 2011/65/EU o ograničenju uporabe određenih opasnih tvari u električnoj i elektroničkoj opremi - Prilog II.

Nijedan sastojak nije na popisu

· UREDBA (EU) 2019/1148

· Prilog I. - **OGRANIČENI PREKURSORI EKSPLOZIVA (Gornja granična vrijednost za potrebe dozvola u skladu s člankom 5. stavkom 3.)**

Nijedan sastojak nije na popisu

· Prilog II. - **PREKURSORI EKSPLOZIVA KOJE TREBA PRIJAVITI**

Nijedan sastojak nije na popisu

· Uredba (EZ) br. 273/2004 o prekursorima za droge

Nijedan sastojak nije na popisu

· Uredba (EZ) br. 111/2005 o utvrđivanju pravila za nadzor trgovine prekursorima za droge između Zajednice i trećih zemalja

Nijedan sastojak nije na popisu

· Nacionalni propisi:

· Ostale odredbe, ograničenja i zabrane

· Tvari vrlo visokog rizika (SVHC) u skladu s REACH, članak 57

84-61-7 dicikloheksil ftalat

· 15.2 Procjena kemijske sigurnosti Nije izvršena procjena sigurnosti tvari.

## ODJELJAK 16: Ostale informacije

Podaci počivaju na današnjoj razini naših znanja, međutim ne predstavljaju nikakvo jamstvo o osobinama materijala i ne zasnivaju nikakav ugovorni pravni odnos.

· Značenje oznaka upozorenja:

H241 Zagrijavanje može uzrokovati požar ili eksploziju.

H317 Može izazvati alergijsku reakciju na koži.

H319 Uzrokuje jako nadraživanje oka.

H360D Može naškoditi nerođenom djetetu.

· Skraćenice i kratice:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

(Nastavak na strani 9)

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*Nestab. ekspl.: Eksplozivi – Nestabilni eksploziv*  
*Org. peroks. B: Organski peroksidi – Tip B*  
*Org. peroks. D: Organski peroksidi – Tip C/D*  
*Nadraž. oka 2: Teške ozljede oka/nadražujuće za oko – 2. kategorija*  
*Derm. senz. 1: Izaživanje preosjetljivosti kože – 1. kategorija*  
*Repr. 1B: Reproductivna toksičnost – 1B. kategorija*

HR

# Veiligheidsinformatieblad

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## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

- **1.1 Productidentificatie**
- **Handelsnaam:** TECHNOVIT 7100 - HARDENER 1
- **Artikelnummer:** 14653(H1)
- **UFI:** T050-H0T2-T008-6UE4
- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**  
Geen verdere relevante informatie verkrijgbaar.
- **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën
- **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**
- **Fabrikant/leverancier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- Aurion  
Binnenhaven 5  
6709 PD Wageningen  
The Netherlands  
Tel: 31 317 415094  
Fax: 31 317 415955  
email: [info@aurion.nl](mailto:info@aurion.nl)
- **Inlichtingengevende sector:** Product safety department
- **1.4 Telefoonnummer voor noodgevallen:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

- **2.1 Indeling van de stof of het mengsel**
- **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS01 ontploffende bom

Unst. Expl. H200 Instabiele ontplofbare stof.



GHS08 gezondheidsgevaar

Repr. 1B H360D Kan het ongeboren kind schaden.



GHS07

Eye Irrit. 2 H319 Veroorzaakt ernstige oogirritatie.

Skin Sens. 1 H317 Kan een allergische huidreactie veroorzaken.

Org. Perox. D H242 Brandgevaar bij verwarming.

(Vervolg op blz. 2)

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(Vervolg van blz. 1)

- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**  
Het product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.
- **Gevarenpictogrammen**



GHS01 GHS07 GHS08

- **Signaalwoord** Gevaar
- **Gevaaraanduidende componenten voor de etikettering:**  
dicyclohexylftalaat  
dibenzoylperoxide
- **Gevarenaanduidingen**  
H200 Instabiele ontplofbare stof.  
H242 Brandgevaar bij verwarming.  
H319 Veroorzaakt ernstige oogirritatie.  
H317 Kan een allergische huidreactie veroorzaken.  
H360D Kan het ongeboren kind schaden.
- **Veiligheidsaanbevelingen**  
P305+P351+P338 **BIJ CONTACT MET DE OGEN:** voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.  
P373 NIET blussen wanneer het vuur de ontplofbare stoffen bereikt.  
P380 Evacuëren.  
P401 Opslaan volgens de plaatselijke/regionale/nationale/internationale voorschriften.  
P405 Achter slot bewaren.  
P410 Tegen zonlicht beschermen.  
P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.
- **2.3 Andere gevaren**
- **Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.2 Chemische karakterisering: Mengsels**
- **Beschrijving:** Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

- **Gevaarlijke inhoudstoffen:**

CAS: 84-61-7	dicyclohexylftalaat	>25-≤50%
EINECS: 201-545-9	⚠ Repr. 1B, H360D; ⚠ Skin Sens. 1, H317	
CAS: 94-36-0	dibenzoylperoxide	>25-≤50%
EINECS: 202-327-6	⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	

- **SVHC**

84-61-7	dicyclohexylftalaat
---------	---------------------

- **Aanvullende gegevens:**  
De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

 NL  
 (Vervolg op blz. 3)



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### RUBRIEK 4: Eerstehulpmaatregelen

#### · 4.1 Beschrijving van de eerstehulpmaatregelen

##### · Na het inademen:

Veel verse lucht toedienen en voor alle zekerheid een arts raadplegen.

Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

##### · Na huidcontact: Onmiddellijk met water en zeep afwassen en goed naspoelen.

##### · Na oogcontact:

De ogen gedurende verscheidene minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.

##### · Na inslikken: Als de klachten niet minderen, een arts raadplegen

#### · 4.2 Belangrijkste acute en uitgestelde symptomen en effecten

Geen verdere relevante informatie verkrijgbaar.

#### · 4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling

Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

#### · 5.1 Blusmiddelen

##### · Geschikte blusmiddelen: Brandblusmaatregelen op omgeving afstemmen.

#### · 5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Geen verdere relevante informatie verkrijgbaar.

#### · 5.3 Advies voor brandweerlieden

##### · Speciale beschermende kleding: Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

#### · 6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Niet nodig.

#### · 6.2 Milieuvorzorgsmaatregelen: Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

#### · 6.3 InsluTINGS- en reinigingsmethoden en -materiaal: Besmet materiaal zoals afval volgens punt 13 verwijderen.

#### · 6.4 Verwijzing naar andere rubrieken

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

#### · 7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Tanks voorzichtig openen en behandelen.

##### · Informatie m.b.t. brand- en ontploffingsgevaar:

Beschermen tegen hitte.

Ademhalingsstoestellen gereedhouden.

#### · 7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

##### · Opslag:

##### · Eisen ten opzichte van opslagruimte en tanks: Geen bijzondere eisen.

##### · Informatie m.b.t. gezamenlijke opslag: Niet noodzakelijk.

##### · Verdere inlichtingen over eisen m.b.t. de opslag:

Tanks ondoordringbaar gesloten houden.

Tegen hitte en directe zonnestralen beschermen.

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· **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **8.1 Controleparameters**
- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:**  
Het produkt bevat geen relevante hoeveelheden van stoffen, die met betrekking tot de werkplaatsen, qua grenswaarden gecontroleerd moeten worden.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
Verwijderd houden van eet- en drinkwaren.  
Verontreinigde kleding onmiddellijk uittrekken.  
Vóór de pauze en aan het einde van werktijd handen wassen.  
Beschermende kleding afzonderlijk bewaren.  
Aanraking met de ogen vermijden.  
Aanraking met de ogen en de huid vermijden.
- **Ademhalingsbescherming:** Niet noodzakelijk.
- **Handbescherming:**



Veiligheidshandschoenen

- Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.  
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.  
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.
- **Handschoenmateriaal**  
De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.
  - **Doordringingstijd van het handschoenmateriaal**  
De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.
  - **Oogbescherming:**



Nauw aansluitende veiligheidsbril

### RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**
- **Algemene gegevens**
- **Voorkomen:**

<b>Vorm:</b>	Poeder
<b>Kleur:</b>	Wit
<b>Geur:</b>	Karakteristiek

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· <b>Geurdrempelwaarde:</b>	Niet bepaald.
· <b>pH-waarde:</b>	Niet bruikbaar.
· <b>Toestandsverandering</b> <b>Smelt-/vriespunt:</b>	Niet bepaald.
<b>Beginkookpunt en kooktraject:</b>	Niet bepaald.
· <b>Vlampunt:</b>	Niet bruikbaar.
· <b>Ontvlambaarheid (vast, gas):</b>	Kan brand veroorzaken.
· <b>Ontledingstemperatuur:</b>	Niet bepaald.
· <b>Zelfontbrandingstemperatuur:</b>	Het produkt ontbrandt niet uit zichzelf.
· <b>Ontploffingseigenschappen:</b>	Ontploffbaar met en zonder lucht.
· <b>Ontploffingsgrenzen:</b>	
<b>Onderste:</b>	Niet bepaald.
<b>Bovenste:</b>	Niet bepaald.
· <b>Dampspanning bij 20 °C:</b>	1 hPa
· <b>Dichtheid bij 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Relatieve dichtheid</b>	Niet bepaald.
· <b>Dampdichtheid</b>	Niet bruikbaar.
· <b>Verdampingsnelheid</b>	Niet bruikbaar.
· <b>Oplosbaarheid in/mengbaarheid met Water:</b>	Niet oplosbaar.
· <b>Verdelingscoëfficiënt: n-octanol/water:</b>	Niet bepaald.
· <b>Viscositeit</b>	
<b>Dynamisch:</b>	Niet bruikbaar.
<b>Kinematisch:</b>	Niet bruikbaar.
· <b>Oplosmiddelgehalte:</b>	
<b>Gehalte aan vaste bestanddelen:</b>	100,0 %
· <b>9.2 Overige informatie</b>	Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

(Vervolg op blz. 6)

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- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie**  
Veroorzaakt ernstige oogirritatie.
- **Sensibilisatie van de luchtwegen/de huid**  
Kan een allergische huidreactie veroorzaken.
- **Aanvullende toxicologische informatie:**
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting**  
Kan het ongeboren kind schaden.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 1 (D) (Zelfclassificatie): gevaar voor water klein  
Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terecht komen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN3106
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR** 3106 ORGANISCH PEROXIDE, TYPE D, VAST
- **IMDG** ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT

(Vervolg op blz. 7)

# Veiligheidsinformatieblad



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(Vervolg van blz. 6)

· <b>IATA</b>	<b>ORGANIC PEROXIDE TYPE D, SOLID</b>
· <b>14.3 Transportgevarenklasse(n)</b>	
· <b>ADR, IATA</b>	
	
· <b>klasse</b>	5.2 Organische peroxiden
· <b>Etiket</b>	5.2
· <b>IMDG</b>	
	
· <b>Class</b>	5.2 Organische peroxiden
· <b>Label</b>	5.2
· <b>14.4 Verpakkingsgroep:</b>	
· <b>ADR, IMDG, IATA</b>	Niet van toepassing
· <b>14.5 Milieugevaren:</b>	
· <b>Marine pollutant:</b>	Symbool (vis en boom)
· <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>	Waarschuwing: Organische peroxiden
· <b>Gevaarsidentificatienummer (Kemler-getal):</b>	90
· <b>EMS-nummer:</b>	F-J,S-R
· <b>Stowage Category</b>	D
· <b>Stowage Code</b>	SW1 Protected from sources of heat.
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b>	Niet bruikbaar.
· <b>Transport/verdere gegevens:</b>	
· <b>ADR</b>	
· <b>Beperkte hoeveelheden (LQ)</b>	500 g
· <b>Uitzonderde hoeveelheden (EQ)</b>	Code: E0 Niet toegestaan als vrijgestelde hoeveelheid
· <b>Vervoerscategorie</b>	2
· <b>Tunnelbeperkingscode</b>	D
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>VN "Model Regulation":</b>	UN 3106 ORGANISCH PEROXIDE, TYPE D, VAST, 5.2

NL

(Vervolg op blz. 8)

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## RUBRIEK 15: Regelgeving

### · 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

#### · SZW-lijst van kankerverwekkende stoffen

geen der bestanddelen staat op de lijst.

#### · SZW-lijst van mutagene stoffen

geen der bestanddelen staat op de lijst.

#### · NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

geen der bestanddelen staat op de lijst.

#### · NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

geen der bestanddelen staat op de lijst.

#### · NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

geen der bestanddelen staat op de lijst.

#### · Lijst Zeer Zorgwekkende Stoffen (ZZS)

84-61-7 | dicyclohexylftalaat

#### · Lijst van Potentieel Zeer Zorgwekkende Stoffen

geen der bestanddelen staat op de lijst.

#### · Richtlijn 2012/18/EU

· Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I geen der bestanddelen staat op de lijst.

· Seveso-categorie P1a ONTPLOFBARE STOFFEN

· Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 10 t

· Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 50 t

· Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 30

#### · Richtlijn 2011/65/EU betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur - Bijlage II

geen der bestanddelen staat op de lijst.

#### · VERORDENING (EU) 2019/1148

#### · Bijlage I - PRECURSOREN VOOR EXPLOSIEVEN WAARVOOR EEN BEPERKING GELDT (Bovengrenswaarde ten behoeve van vergunningverlening op grond van artikel 5, lid 3)

geen der bestanddelen staat op de lijst.

#### · Bijlage II - PRECURSOREN VOOR EXPLOSIEVEN DIE MOETEN WORDEN GEMELD

geen der bestanddelen staat op de lijst.

#### · Verordening (EG) nr. 273/2004 inzake drugsprecursoren

geen der bestanddelen staat op de lijst.

#### · Verordening (EG) Nr. 111/2005 houdende voorschriften voor het toezicht op de handel tussen de Gemeenschap en derde landen in drugsprecursoren

geen der bestanddelen staat op de lijst.

#### · Nationale voorschriften:

##### · Gevaarklasse v. water:

Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)

##### · Aanvullende voorschriften, beperkingen en verbodsverordeningen

#### · Zeer zorgwekkende stoffen (SVHC) volgens REACH, artikel 57

84-61-7 | dicyclohexylftalaat

(Vervolg op blz. 9)

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· **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

## RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

· **Relevante zinnen**

H241 Brand- of ontploffingsgevaar bij verwarming.

H317 Kan een allergische huidreactie veroorzaken.

H319 Veroorzaakt ernstige oogirritatie.

H360D Kan het ongeboren kind schaden.

· **Afkortingen en acroniemen:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Ontploffbare stoffen – Instabiele ontploffbare stof

Org. Perox. B: Organische peroxiden – Type B

Org. Perox. D: Organische peroxiden – Type C/D

Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2

Skin Sens. 1: Sensibilisatie van de huid – Categorie 1

Repr. 1B: Voortplantingstoxiciteit – Categorie 1B

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

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### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** TECHNOVIT 7100 - HARDENER 1
- **Code du produit:** 14653(H1)
- **UFI:** T050-H0T2-T008-6UE4
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS01 bombe explosant

Unst. Expl. H200 Explosif instable.



GHS08 danger pour la santé

Repr. 1B H360D Peut nuire au fœtus.



GHS07

Eye Irrit. 2 H319 Provoque une sévère irritation des yeux.

Skin Sens. 1 H317 Peut provoquer une allergie cutanée.

Org. Perox. D H242 Peut s'enflammer sous l'effet de la chaleur.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** Le produit est classifié et étiqueté selon le règlement CLP.
- **Pictogrammes de danger**



GHS01



GHS07



GHS08

(suite page 2)



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· **Mention d'avertissement** Danger

· **Composants dangereux déterminants pour l'étiquetage:**

phtalate de dicyclohexyle

peroxyde de dibenzoyl

· **Mentions de danger**

H200 Explosif instable.

H242 Peut s'enflammer sous l'effet de la chaleur.

H319 Provoque une sévère irritation des yeux.

H317 Peut provoquer une allergie cutanée.

H360D Peut nuire au fœtus.

· **Conseils de prudence**

P305+P351+P338 **EN CAS DE CONTACT AVEC LES YEUX:** Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

P373 NE PAS combattre l'incendie lorsque le feu atteint les explosifs.

P380 Évacuer la zone.

P401 Stocker conformément à la réglementation locale/régionale/nationale/internationale.

P405 Garder sous clef.

P410 Protéger du rayonnement solaire.

P501 Éliminer le contenu/réceptacle conformément à la réglementation locale/régionale/nationale/internationale.

· **2.3 Autres dangers**

· **Résultats des évaluations PBT et vPvB**

· **PBT:** Non applicable.






· **vPvB:** Non applicable.

### RUBRIQUE 3: Composition/informations sur les composants

· **3.2 Caractérisation chimique: Mélanges**

· **Description:** Mélange des substances mentionnées à la suite avec des additifs non dangereux.

· **Composants dangereux:**

CAS: 84-61-7	phtalate de dicyclohexyle	>25-≤50%
EINECS: 201-545-9	 Repr. 1B, H360D;  Skin Sens. 1, H317	
CAS: 94-36-0	peroxyde de dibenzoyl	>25-≤50%
EINECS: 202-327-6	  Org. Perox. B, H241;  Eye Irrit. 2, H319; Skin Sens. 1, H317	

· **SVHC**

84-61-7	phtalate de dicyclohexyle
---------	---------------------------

· **Indications complémentaires:** Pour le libellé des phrases de risque citées, se référer au chapitre 16.

### RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**

· **Après inhalation:**

Donner de l'air frais en abondance et consulter un médecin pour plus de sécurité.

En cas d'inconscience, coucher et transporter la personne en position latérale stable.

· **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.

· **Après contact avec les yeux:**

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.

· **Après ingestion:** Si les troubles persistent, consulter un médecin.

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- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.
- **6.4 Référence à d'autres rubriques**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.  
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Ouvrir et manipuler les récipients avec précaution.
- **Préventions des incendies et des explosions:**  
Tenir à l'abri de la chaleur.  
Tenir des appareils de protection respiratoire prêts.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:**  
Tenir les emballages hermétiquement fermés.  
Protéger de la forte chaleur et du rayonnement direct du soleil.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **8.1 Paramètres de contrôle**
- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.

· **Composants présentant des valeurs-seuil à surveiller par poste de travail:**

**94-36-0 peroxyde de dibenzoyl**

VLEP Valeur à long terme: 5 mg/m<sup>3</sup>

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· **Remarques supplémentaires:**

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

· **8.2 Contrôles de l'exposition**

· **Equipement de protection individuel:**

· **Mesures générales de protection et d'hygiène:**

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Conserver à part les vêtements de protection.

Eviter tout contact avec les yeux.

Eviter tout contact avec les yeux et avec la peau.

· **Protection respiratoire:** N'est pas nécessaire.

· **Protection des mains:**



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· **Matériau des gants**

Le choix de gants appropriés dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

· **Temps de pénétration du matériau des gants**

Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.

· **Protection des yeux:**



Lunettes de protection hermétiques

### RUBRIQUE 9: Propriétés physiques et chimiques

· **9.1 Informations sur les propriétés physiques et chimiques essentielles**

· **Indications générales**

· **Aspect:**

**Forme:** Poudre

**Couleur:** Blanc

· **Odeur:** Caractéristique

· **Seuil olfactif:** Non déterminé.

· **valeur du pH:** Non applicable.

· **Changement d'état**

**Point de fusion/point de congélation:** Non déterminé.

**Point initial d'ébullition et intervalle d'ébullition:** Non déterminé.

· **Point d'éclair** Non applicable.

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· <b>Inflammabilité (solide, gaz):</b>	Peut provoquer un incendie.
· <b>Température de décomposition:</b>	Non déterminé.
· <b>Température d'auto-inflammabilité:</b>	Le produit ne s'enflamme pas spontanément.
· <b>Propriétés explosives:</b>	Danger d'explosion en contact ou sans contact avec l'air.
· <b>Limites d'explosion:</b>	
<b>Inférieure:</b>	Non déterminé.
<b>Supérieure:</b>	Non déterminé.
· <b>Pression de vapeur à 20 °C:</b>	1 hPa
· <b>Densité à 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Densité relative</b>	Non déterminé.
· <b>Densité de vapeur:</b>	Non applicable.
· <b>Taux d'évaporation:</b>	Non applicable.
· <b>Solubilité dans/miscibilité avec l'eau:</b>	Insoluble
· <b>Coefficient de partage: n-octanol/eau:</b>	Non déterminé.
· <b>Viscosité:</b>	
<b>Dynamique:</b>	Non applicable.
<b>Cinématique:</b>	Non applicable.
· <b>Teneur en solvants:</b>	
<b>Teneur en substances solides:</b>	100,0 %
· <b>9.2 Autres informations</b>	Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

- **10.1 Réactivité** Pas d'autres informations importantes disponibles.
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Lésions oculaires graves/irritation oculaire**  
Provoque une sévère irritation des yeux.
- **Sensibilisation respiratoire ou cutanée**  
Peut provoquer une allergie cutanée.

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- **Indications toxicologiques complémentaires:**
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagenicité sur les cellules germinales**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Cancérogénicité** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité pour la reproduction**  
Peut nuire au fœtus.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 1 (D) (Classification propre): peu polluant  
Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

### RUBRIQUE 14: Informations relatives au transport

- |  |  |
|--|--|
| · <b>14.1 Numéro ONU</b>                                   |  |
| · <b>ADR, IMDG, IATA</b>                                   | UN3106   |
| · <b>14.2 Désignation officielle de transport de l'ONU</b> |  |
| · <b>ADR</b>   | 3106 PEROXYDE ORGANIQUE DE TYPE D, SOLIDE        |
| · <b>IMDG</b>  | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| · <b>IATA</b>  | ORGANIC PEROXIDE TYPE D, SOLID                   |

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# Fiche de données de sécurité

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· **14.3 Classe(s) de danger pour le transport**

· **ADR, IATA**

· **Classe** 5.2 Peroxydes organiques.  
 · **Étiquette** 5.2

· **IMDG**

· **Class** 5.2 Peroxydes organiques.  
 · **Label** 5.2

· **14.4 Groupe d'emballage**

· **ADR, IMDG, IATA** néant

· **14.5 Dangers pour l'environnement:**

· **Marine Pollutant:** Signe conventionnel (poisson et arbre)

· **14.6 Précautions particulières à prendre par l'utilisateur**

· **Attention:** Peroxydes organiques.  
 · **Numéro d'identification du danger (Indice Kemler):** 90  
 · **No EMS:** F-J,S-R  
 · **Stowage Category** D  
 · **Stowage Code** SW1 Protected from sources of heat.  
 · **Segregation Code** SG35 Stow "separated from" SGG1-acids  
 SG36 Stow "separated from" SGG18-alkalis.

· **14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC**

Non applicable.

· **Indications complémentaires de transport:**

· **ADR**

· **Quantités limitées (LQ)** 500 g  
 · **Quantités exceptées (EQ)** Code: E0  
 Non autorisé en tant que quantité exceptée

· **Catégorie de transport**

2

· **Code de restriction en tunnels**

D

· **IMDG**

· **Limited quantities (LQ)** 5 kg  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 g  
 Maximum net quantity per outer packaging: 1000 g

· **"Règlement type" de l'ONU:**

UN 3106 PEROXYDE ORGANIQUE DE TYPE D, SOLIDE, 5.2

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### RUBRIQUE 15: Informations relatives à la réglementation

· **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**

· **Directive 2012/18/UE**

· **Substances dangereuses désignées - ANNEXE I** Aucun des composants n'est compris.

· **Catégorie SEVESO P1a EXPLOSIBLES**

· **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas** 10 t

· **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut** 50 t

· **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 30

· **Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques – Annexe II**

Aucun des composants n'est compris.

· **RÈGLEMENT (UE) 2019/1148**

· **Annexe I - PRÉCURSEURS D'EXPLOSIFS FAISANT L'OBJET DE RESTRICTIONS (Valeur limite maximale aux fins de l'octroi d'une licence en vertu de l'article 5, paragraphe 3)**

Aucun des composants n'est compris.

· **Annexe II - PRÉCURSEURS D'EXPLOSIFS DEVANT FAIRE L'OBJET D'UN SIGNALLEMENT**

Aucun des composants n'est compris.

· **Règlement (CE) n° 273/2004 relatif aux précurseurs de drogues**

Aucun des composants n'est compris.

· **Règlement (CE) n° 111/2005 fixant des règles pour la surveillance du commerce des précurseurs des drogues entre la Communauté et les pays tiers**

Aucun des composants n'est compris.

· **Prescriptions nationales:**

· **Autres prescriptions, restrictions et règlements d'interdiction**

· **Substances extrêmement préoccupantes (SVHC) selon REACH, article 57**

84-61-7 | phtalate de dicyclohexyle

· **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

· **Phrases importantes**

H241 Peut s'enflammer ou exploser sous l'effet de la chaleur.

H317 Peut provoquer une allergie cutanée.

H319 Provoque une sévère irritation des yeux.

H360D Peut nuire au fœtus.

· **Acronymes et abréviations:**

ADR: Accord relatif au transport international des marchandises dangereuses par route

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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*Unst. Expl.: Explosibles – Explosible instable**Org. Perox. B: Peroxydes organiques – Type B**Org. Perox. D: Peroxydes organiques – Type C/D**Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2**Skin Sens. 1: Sensibilisation cutanée – Catégorie 1**Repr. 1B: Toxicité pour la reproduction – Catégorie 1B*

FR



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### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname:** TECHNOVIT 7100 - HARDENER 1

· **Artikelnummer:** 14653(H1)

· **UFI:** T050-H0T2-T008-6UE4

· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**

Keine weiteren relevanten Informationen verfügbar.

· **Verwendung des Stoffes / des Gemisches** Laborchemikalien

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**

· **Hersteller/Lieferant:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [info@emsdiasum.com](mailto:info@emsdiasum.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

Science Services GmbH

Unterhachinger Str. 75

81737 München Germany

Tel: +49(0)89 18 93 668-0

[safety@scienceservices.de](mailto:safety@scienceservices.de)

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, [www.toxinfo.org](http://www.toxinfo.org)

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

· **Auskunfteibender Bereich:** Product safety department

· **1.4 Notrufnummer:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**

· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS01 explodierende Bombe

Unst. Expl. H200 Instabil, explosiv.



GHS08 Gesundheitsgefahr

Repr. 1B H360D Kann das Kind im Mutterleib schädigen.



GHS07

Eye Irrit. 2 H319 Verursacht schwere Augenreizung.

Skin Sens. 1 H317 Kann allergische Hautreaktionen verursachen.

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Org. Perox. D H242 Erwärmung kann Brand verursachen.

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**  
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- **Gefahrenpiktogramme**



GHS01   GHS07   GHS08

- **Signalwort Gefahr**
- **Gefahrbestimmende Komponenten zur Etikettierung:**  
Dicyclohexylphthalat  
Dibenzoylperoxid
- **Gefahrenhinweise**  
H200 Instabil, explosiv.  
H242 Erwärmung kann Brand verursachen.  
H319 Verursacht schwere Augenreizung.  
H317 Kann allergische Hautreaktionen verursachen.  
H360D Kann das Kind im Mutterleib schädigen.
- **Sicherheitshinweise**  
P305+P351+P338 **BEI KONTAKT MIT DEN AUGEN:** Einige Minuten lang behutsam mit Wasser spülen.  
Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.  
P373 KEINE Brandbekämpfung, wenn das Feuer explosive Stoffe/Gemische/Erzeugnisse erreicht.  
P380 Umgebung räumen.  
P401 Gemäß örtlicher/regionaler/nationaler/internationaler Vorschrift lagern.  
P405 Unter Verschluss aufbewahren.  
P410 Vor Sonnenbestrahlung schützen.  
P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.
- **Zusätzliche Angaben:**  
Nur für gewerbliche Anwender.
- **2.3 Sonstige Gefahren**
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- **3.2 Chemische Charakterisierung: Gemische**
- **Beschreibung:** Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.

**Gefährliche Inhaltsstoffe:**

CAS: 84-61-7 EINECS: 201-545-9	Dicyclohexylphthalat Repr. 1B, H360D; Skin Sens. 1, H317	>25-≤50%
CAS: 94-36-0 EINECS: 202-327-6	Dibenzoylperoxid Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	>25-≤50%

**SVHC**

84-61-7	Dicyclohexylphthalat
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· **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

· **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**

· **Nach Einatmen:**

Reichlich Frischluftzufuhr und sicherheitshalber Arzt aufsuchen.

Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

· **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.

· **Nach Augenkontakt:**

Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.

· **Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.

· **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**

Keine weiteren relevanten Informationen verfügbar.

· **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**

Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

· **5.1 Löschmittel**

· **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.

· **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**

Keine weiteren relevanten Informationen verfügbar.

· **5.3 Hinweise für die Brandbekämpfung**

· **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

· **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**

Nicht erforderlich.

· **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.

· **6.3 Methoden und Material für Rückhaltung und Reinigung:**

Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.

· **6.4 Verweis auf andere Abschnitte**

Informationen zur sicheren Handhabung siehe Abschnitt 7.

Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.

Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

· **7.1 Schutzmaßnahmen zur sicheren Handhabung Behälter mit Vorsicht öffnen und handhaben.**

· **Hinweise zum Brand- und Explosionsschutz:**

Vor Hitze schützen.

Atemschutzgeräte bereithalten.

· **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**

· **Lagerung:**

· **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.

· **Zusammenlagerungshinweise:** Nicht erforderlich.

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- **Weitere Angaben zu den Lagerbedingungen:**  
Behälter dicht geschlossen halten.  
Vor Hitze und direkter Sonnenbestrahlung schützen.
- **Lagerklasse:**
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **8.1 Zu überwachende Parameter**
- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**

**94-36-0 Dibenzoylperoxid**

AGW	Langzeitwert: 5 E mg/m <sup>3</sup> I(I);DFG
-----	---

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**  
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.  
Beschmutzte, getränkte Kleidung sofort ausziehen.  
Vor den Pausen und bei Arbeitsende Hände waschen.  
Getrennte Aufbewahrung der Schutzkleidung.  
Berührung mit den Augen vermeiden.  
Berührung mit den Augen und der Haut vermeiden.
- **Atemschutz:** Nicht erforderlich.
- **Handschutz:**



Schutzhandschuhe

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

- **Handschuhmaterial**  
Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.

- **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

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· **Augenschutz:**

Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**· **Allgemeine Angaben**· **Aussehen:**

<b>Form:</b>	Pulver
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<b>Farbe:</b>	Weiß
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<b>Geruch:</b>	Charakteristisch
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<b>Geruchsschwelle:</b>	Nicht bestimmt.
-------------------------	-----------------

<b>pH-Wert:</b>	Nicht anwendbar.
-----------------	------------------

· **Zustandsänderung**

<b>Schmelzpunkt/Gefrierpunkt:</b>	Nicht bestimmt.
-----------------------------------	-----------------

<b>Siedebeginn und Siedebereich:</b>	Nicht bestimmt.
--------------------------------------	-----------------

<b>Flammpunkt:</b>	Nicht anwendbar.
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<b>Entzündbarkeit (fest, gasförmig):</b>	Kann Brand verursachen.
--	-------------------------

<b>Zersetzungstemperatur:</b>	Nicht bestimmt.
-------------------------------	-----------------

<b>Selbstentzündungstemperatur:</b>	Das Produkt ist nicht selbstentzündlich.
-------------------------------------	--

<b>Explosive Eigenschaften:</b>	Mit und ohne Luft explosionsfähig.
---------------------------------	------------------------------------

· **Explosionsgrenzen:**

<b>Untere:</b>	Nicht bestimmt.
----------------	-----------------

<b>Obere:</b>	Nicht bestimmt.
---------------	-----------------

<b>Dampfdruck bei 20 °C:</b>	1 hPa
------------------------------	-------

<b>Dichte bei 20 °C:</b>	1,24 g/cm <sup>3</sup>
--------------------------	------------------------

<b>Relative Dichte</b>	Nicht bestimmt.
------------------------	-----------------

<b>Dampfdichte</b>	Nicht anwendbar.
--------------------	------------------

<b>Verdampfungsgeschwindigkeit</b>	Nicht anwendbar.
------------------------------------	------------------

<b>Löslichkeit in / Mischbarkeit mit Wasser:</b>	Unlöslich.
--	------------

<b>Verteilungskoeffizient: n-Octanol/Wasser:</b>	Nicht bestimmt.
--	-----------------

· **Viskosität:**

<b>Dynamisch:</b>	Nicht anwendbar.
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<b>Kinematisch:</b>	Nicht anwendbar.
---------------------	------------------

· **Lösemittelgehalt:**

<b>Festkörpergehalt:</b>	100,0 %
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<b>9.2 Sonstige Angaben</b>	Keine weiteren relevanten Informationen verfügbar.
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### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung**  
Verursacht schwere Augenreizung.
- **Sensibilisierung der Atemwege/Haut**  
Kann allergische Hautreaktionen verursachen.
- **Zusätzliche toxikologische Hinweise:**
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität**  
Kann das Kind im Mutterleib schädigen.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 1 (Selbsteinstufung): schwach wassergefährdend  
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

DE

(Fortsetzung auf Seite 7)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 20.01.2022

überarbeitet am: 20.01.2022



Handelsname: **TECHNOVIT 7100 - HARDENER 1**

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### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

### ABSCHNITT 14: Angaben zum Transport

- |  |  |                                |
|--|--|--------------------------------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | UN3106   |                                |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>   | 3106 ORGANISCHES PEROXID TYP D, FEST<br>ORGANIC PEROXIDE TYPE D, SOLID, MARINE<br>POLLUTANT<br>ORGANIC PEROXIDE TYPE D, SOLID  |                                |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR, IATA</b></li> </ul>   | <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Klasse</b></li> <li>· <b>Gefahrzettel</b></li> </ul> | 5.2 Organische Peroxide<br>5.2 |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>        | 5.2 Organische Peroxide<br>5.2 |
| <ul style="list-style-type: none"> <li>· <b>14.4 Verpackungsgruppe</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | entfällt   |                                |
| <ul style="list-style-type: none"> <li>· <b>14.5 Umweltgefahren:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>  | Symbol (Fisch und Baum)  |                                |
| <ul style="list-style-type: none"> <li>· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b></li> <li>· <b>Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl):</b></li> <li>· <b>EMS-Nummer:</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Stowage Code</b></li> <li>· <b>Segregation Code</b></li> </ul> | Achtung: Organische Peroxide<br>90<br>F-J,S-R<br>D<br>SW1 Protected from sources of heat.<br>SG35 Stow "separated from" SGG1-acids<br>SG36 Stow "separated from" SGG18-alkalis.  |                                |
| <ul style="list-style-type: none"> <li>· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b></li> </ul>  | Nicht anwendbar.   |                                |

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· **Transport/weitere Angaben:**

· **ADR**

· **Begrenzte Menge (LQ)**

500 g

· **Freigestellte Mengen (EQ)**

Code: E0

In freigestellten Mengen nicht zugelassen

· **Beförderungskategorie**

2

· **Tunnelbeschränkungscode**

D

· **IMDG**

· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":**

UN 3106 ORGANISCHES PEROXID TYP D, FEST, 5.2

### ABSCHNITT 15: Rechtsvorschriften

· **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**

· **Richtlinie 2012/18/EU**

· **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Keiner der Inhaltsstoffe ist enthalten.

· **Seveso-Kategorie P1a EXPLOSIVE STOFFE**

· **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 10 t**

· **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 50 t**

· **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 30

· **Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II**

Keiner der Inhaltsstoffe ist enthalten.

· **VERORDNUNG (EU) 2019/1148**

· **Anhang I - BESCHRÄNKTE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE (Oberer Konzentrationsgrenzwert für eine Genehmigung nach Artikel 5 Absatz 3)**

Keiner der Inhaltsstoffe ist enthalten.

· **Anhang II - MELDEPFLICHTIGE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE**

Keiner der Inhaltsstoffe ist enthalten.

· **Verordnung (EG) Nr. 273/2004 betreffend Drogenausgangsstoffe**

Keiner der Inhaltsstoffe ist enthalten.

· **Verordnung (EG) Nr. 111/2005 zur Festlegung von Vorschriften für die Überwachung des Handels mit Drogenaustauschstoffen zwischen der Gemeinschaft und Drittländern**

Keiner der Inhaltsstoffe ist enthalten.

· **Nationale Vorschriften:**

· **Wassergefährdungsklasse: WGK 1 (Selbsteinstufung):** schwach wassergefährdend.

· **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**

Das Produkt unterliegt der Anlage 2 der Chemikalienverbotsverordnung (ChemVerbotsV) - Anforderungen in Bezug auf die Abgabe

· **Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57**

84-61-7 | Dicyclohexylphthalat

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· **15.2 Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· **Relevante Sätze**

H241 Erwärmung kann Brand oder Explosion verursachen.

H317 Kann allergische Hautreaktionen verursachen.

H319 Verursacht schwere Augenreizung.

H360D Kann das Kind im Mutterleib schädigen.

· **Abkürzungen und Akronyme:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff – Instabil, explosiv

Org. Perox. B: Organische Peroxide – Typ B

Org. Perox. D: Organische Peroxide – Typ C/D

Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2

Skin Sens. 1: Sensibilisierung der Haut – Kategorie 1

Repr. 1B: Reproduktionstoxizität – Kategorie 1B

**Scheda di dati di sicurezza**  
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### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** TECHNOVIT 7100 - HARDENER 1

· **Articolo numero:** 14653(H1)

· **UFI:** T050-H0T2-T008-6UE4

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**  
Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [info@emsdiasum.com](mailto:info@emsdiasum.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: [www.sichim.com](http://www.sichim.com)

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS01 bomba che esplose

Unst. Expl. H200 Esplosivo instabile.



GHS08 pericolo per la salute

Repr. 1B H360D Può nuocere al feto.



GHS07

Eye Irrit. 2 H319 Provoca grave irritazione oculare.

Skin Sens. 1 H317 Può provocare una reazione allergica cutanea.

Org. Perox. D H242 Rischio d'incendio per riscaldamento.

· **2.2 Elementi dell'etichetta**

· **Etichettatura secondo il regolamento (CE) n. 1272/2008**

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.

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# Scheda di dati di sicurezza

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· **Pittogrammi di pericolo**

GHS01 GHS07 GHS08

· **Avvertenza Pericolo**· **Componenti pericolosi che ne determinano l'etichettatura:**

dicicloesilftalato  
perossido di dibenzoile

· **Indicazioni di pericolo**

H200 Esplosivo instabile.  
H242 Rischio d'incendio per riscaldamento.  
H319 Provoca grave irritazione oculare.  
H317 Può provocare una reazione allergica cutanea.  
H360D Può nuocere al feto.

· **Consigli di prudenza**

P305+P351+P338 **IN CASO DI CONTATTO CON GLI OCCHI:** sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.  
P373 **NON** utilizzare mezzi estinguenti se l'incendio raggiunge materiali esplosivi.  
P380 Evacuare la zona.  
P401 Conservare secondo i regolamenti locali/regionali/nazionali/internazionali.  
P405 Conservare sotto chiave.  
P410 Proteggere dai raggi solari.  
P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.

· **2.3 Altri pericoli**· **Risultati della valutazione PBT e vPvB**

· **PBT:** Non applicabile.  
· **vPvB:** Non applicabile.

### SEZIONE 3: Composizione/informazioni sugli ingredienti

· **3.2 Caratteristiche chimiche: Miscela**· **Descrizione:** Miscela delle seguenti sostanze con additivi non pericolosi.· **Sostanze pericolose:**

CAS: 84-61-7	dicicloesilftalato	>25-≤50%
EINECS: 201-545-9	Repr. 1B, H360D;  Skin Sens. 1, H317	
CAS: 94-36-0	perossido di dibenzoile	>25-≤50%
EINECS: 202-327-6	Org. Perox. B, H241;  Eye Irrit. 2, H319;  Skin Sens. 1, H317	

· **SVHC**

84-61-7	dicicloesilftalato
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· **Ulteriori indicazioni:** Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16

### SEZIONE 4: Misure di primo soccorso

· **4.1 Descrizione delle misure di primo soccorso**· **Inalazione:**

Portare il soggetto in zona molto ben areata e per sicurezza consultare un medico.

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- Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.
- **Contatto con la pelle:** Lavare immediatamente con acqua e sapone sciacquando accuratamente.
  - **Contatto con gli occhi:**  
Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte. Se persiste il dolore consultare il medico.
  - **Ingestione:** Se il dolore persiste consultare il medico.
  - **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.
  - **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
Non sono disponibili altre informazioni.

### **SEZIONE 5: Misure antincendio**

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.
- **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**
- **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

### **SEZIONE 6: Misure in caso di rilascio accidentale**

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.
- **6.2 Precauzioni ambientali:** Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**  
Smaltimento del materiale contaminato conformemente al punto 13.
- **6.4 Riferimento ad altre sezioni**  
Per informazioni relative ad una manipolazione sicura, vedere capitolo 7.  
Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.  
Per informazioni relative allo smaltimento vedere Capitolo 13.

### **SEZIONE 7: Manipolazione e immagazzinamento**

- **7.1 Precauzioni per la manipolazione sicura** Aprire e manipolare i recipienti con cautela.
- **Indicazioni in caso di incendio ed esplosione:**  
Proteggere dal calore.  
Tener pronto il respiratore.
- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:**  
Mantenere i recipienti ermeticamente chiusi.  
Proteggere dal calore e dai raggi diretti del sole.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

### **SEZIONE 8: Controllo dell'esposizione/protezione individuale**

- **8.1 Parametri di controllo**
- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.

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· **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**

**94-36-0 perossido di dibenzoile**

TWA	Valore a lungo termine: 5 mg/m <sup>3</sup>
A4	

· **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

· **8.2 Controlli dell'esposizione**

· **Mezzi protettivi individuali:**

· **Norme generali protettive e di igiene del lavoro:**

Tenere lontano da cibo, bevande e foraggi.

Togliere immediatamente gli abiti contaminati.

Lavarsi le mani prima dell'intervallo o a lavoro terminato.

Custodire separatamente l'equipaggiamento protettivo.

Evitare il contatto con gli occhi.

Evitare il contatto con gli occhi e la pelle.

· **Maschera protettiva:** Non necessario.

· **Guanti protettivi:**



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.

A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.

Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

· **Materiale dei guanti**

La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell'impiego

· **Tempo di permeazione del materiale dei guanti**

Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.

· **Occhiali protettivi:**



Occhiali protettivi a tenuta

## SEZIONE 9: Proprietà fisiche e chimiche

· **9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali**

· **Indicazioni generali**

· **Aspetto:**

Forma:

Polvere

Colore:

Bianco

· **Odore:**

Caratteristico

· **Soglia olfattiva:**

Non definito.

· **valori di pH:**

Non applicabile.

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· <b>Cambiamento di stato</b> Punto di fusione/punto di congelamento:	Non definito.
Punto di ebollizione iniziale e intervallo di ebollizione:	Non definito.
· <b>Punto di infiammabilità:</b>	Non applicabile.
· <b>Infiammabilità (solidi, gas):</b>	Può provocare un incendio.
· <b>Temperatura di decomposizione:</b>	Non definito.
· <b>Temperatura di autoaccensione:</b>	Prodotto non autoinfiammabile.
· <b>Proprietà esplosive:</b>	Esplosivo a contatto o senza contatto con l'aria.
· <b>Limiti di infiammabilità:</b> Inferiore:	Non definito.
Superiore:	Non definito.
· <b>Tensione di vapore a 20 °C:</b>	1 hPa
· <b>Densità a 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Densità relativa</b>	Non definito.
· <b>Densità di vapore:</b>	Non applicabile.
· <b>Velocità di evaporazione</b>	Non applicabile.
· <b>Solubilità in/Miscibilità con acqua:</b>	Insolubile.
· <b>Coefficiente di ripartizione: n-ottanolo/acqua:</b>	Non definito.
· <b>Viscosità:</b> Dinamica:	Non applicabile.
Cinematica:	Non applicabile.
· <b>Tenore del solvente:</b>	
Contenuto solido:	100,0 %
· <b>9.2 Altre informazioni</b>	Non sono disponibili altre informazioni.

### SEZIONE 10: Stabilità e reattività

- **10.1 Reattività** Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

### SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

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- **Lesioni oculari gravi/irritazioni oculari gravi**  
Provoca grave irritazione oculare.
- **Sensibilizzazione respiratoria o cutanea**  
Può provocare una reazione allergica cutanea.
- **Ulteriori dati tossicologici:**
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità per la riproduzione**  
Può nuocere al feto.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 1 (D) (Autoclassificazione): poco pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature non diluito o in grandi quantità.
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

### SEZIONE 14: Informazioni sul trasporto

- |   |  |
|---|--|
| · <b>14.1 Numero ONU</b>                  |  |
| · <b>ADR, IMDG, IATA</b>                  | UN3106   |
| · <b>14.2 Nome di spedizione dell'ONU</b> |  |
| · <b>ADR</b>                              | 3106 PEROSSIDO ORGANICO DI TIPO D, SOLIDO        |
| · <b>IMDG</b>                             | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| · <b>IATA</b>                             | ORGANIC PEROXIDE TYPE D, SOLID                   |

(continua a pagina 7)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 20.01.2022

Revisione: 20.01.2022

Denominazione commerciale: **TECHNOVIT 7100 - HARDENER 1**

(Segue da pagina 6)

## · 14.3 Classi di pericolo connesso al trasporto

· ADR, IATA



· Classe 5.2 Perossidi organici  
· Etichetta 5.2

· IMDG



· Class 5.2 Perossidi organici  
· Label 5.2

## · 14.4 Gruppo di imballaggio

· ADR, IMDG, IATA non applicabile

## · 14.5 Pericoli per l'ambiente:

· Marine pollutant: Simbolo (pesce e albero)

## · 14.6 Precauzioni speciali per gli utilizzatori

Attenzione: Perossidi organici  
· N° identificazione pericolo (Numero Kemler): 90  
· Numero EMS: F-J,S-R  
· Stowage Category D  
· Stowage Code SW1 Protected from sources of heat.  
· Segregation Code SG35 Stow "separated from" SGG1-acids  
SG36 Stow "separated from" SGG18-alkalis.

## · 14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC

Non applicabile.

## · Trasporto/ulteriori indicazioni:

· ADR

· Quantità limitate (LQ) 500 g  
· Quantità esenti (EQ) Codice: E0  
Vietato al trasporto in quantità esente  
· Categoria di trasporto 2  
· Codice di restrizione in galleria D

· IMDG

· Limited quantities (LQ) 5 kg  
· Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g

· UN "Model Regulation":

UN 3106 PEROSSIDO ORGANICO DI TIPO D, SOLIDO, 5.2

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(continua a pagina 8)



**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 20.01.2022

Revisione: 20.01.2022

Denominazione commerciale: **TECHNOVIT 7100 - HARDENER 1**

(Segue da pagina 7)

### SEZIONE 15: Informazioni sulla regolamentazione

· **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**

· **Direttiva 2012/18/UE**

· **Sostanze pericolose specificate - ALLEGATO I** Nessuno dei componenti è contenuto.

· **Categoria Seveso P1a** ESPLOSIVI

· **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore** 10 t

· **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore** 50 t

· **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** Restrizioni: 30

· **Direttiva 2011/65/UE sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche - Allegato II**

Nessuno dei componenti è contenuto.

· **REGOLAMENTO (UE) 2019/1148**

· **Allegato I - PRECURSORI DI ESPLOSIVI SOGGETTI A RESTRIZIONI (Valore limite superiore ai fini della concessione di licenze a norma dell'articolo 5, paragrafo 3)**

Nessuno dei componenti è contenuto.

· **Allegato II - PRECURSORI DI ESPLOSIVI SOGGETTI A SEGNALAZIONE**

Nessuno dei componenti è contenuto.

· **Regolamento (CE) n. 273/2004 relativo ai precursori di droghe**

Nessuno dei componenti è contenuto.

· **Regolamento (CE) N. 111/2005 recante norme per il controllo del commercio dei precursori di droghe tra la Comunità e i paesi terzi**

Nessuno dei componenti è contenuto.

· **Disposizioni nazionali:**

· **Ulteriori disposizioni, limitazioni e decreti proibitivi**

· **Sostanze estremamente preoccupanti (SVHC) ai sensi della regolamento REACH, articolo 57**

84-61-7 | dicicloesilftalato

· **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

### SEZIONE 16: Altre informazioni

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

· **Frasei rilevanti**

H241 Rischio d'incendio o di esplosione per riscaldamento.

H317 Può provocare una reazione allergica cutanea.

H319 Provoca grave irritazione oculare.

H360D Può nuocere al feto.

· **Abbreviazioni e acronimi:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

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**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 20.01.2022

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*vPvB: very Persistent and very Bioaccumulative**Unst. Expl.: Esplosivi – Esplosivo instabile**Org. Perox. B: Perossidi organici – Tipo B**Org. Perox. D: Perossidi organici – Tipo C/D**Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2**Skin Sens. 1: Sensibilizzazione della pelle – Categoria 1**Repr. 1B: Tossicità per la riproduzione – Categoria 1B*

IT

# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 項目 1: 化学品及び会社情報

- ・ 製品識別子
- ・ 化学品の名称 **TECHNOVIT 7100 - HARDENER 1**
- ・ 製品コード 14653(H1)
- ・ 該当純物質または混合物の関連特定用途及び使用禁止用途 追加的な関連情報は得られていません。
- ・ 推奨用途 実験用化学物質
- ・ 安全データシートの供給元の詳細情報
- ・ 供給者の会社名称,住所及び電話番号  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- ・ その他の情報問い合わせ先: Product safety department
- ・ 緊急連絡電話番号  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 項目 2: 危険有害性の要約

- ・ 化学品のGHS分類分類



爆発

不安定火薬類

H200 不安定爆発物



火炎

有機過酸化物質 タイプD

H242 熱すると火災のおそれ



健康に危険

生殖毒性 区分1B

H360 生殖能又は胎児への悪影響のおそれ



重篤な眼の損傷性/眼刺激性 区分2A H319 強い眼刺激

感作性(皮膚) 区分1

H317 アレルギー性皮膚反応を起こすおそれ

- ・ GHSラベル要素 (絵表示又はシンボル,注意喚起語,危険有害性情報及び注意書き)
- ・ GHSラベル要素

本製品はGHS(化学品の分類および表示に関する世界調和システム)により分類及び表示されています。

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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(1ページの続き)

・ **絵表示**



・ **注意喚起語** 危険

・ **危険と定められた成分をラベル表示:**

フタル酸ジシクロヘキシル  
ジベンゾイルペルオキシド

・ **危険有害性情報**

不安定爆発物  
熱すると火災のおそれ  
強い眼刺激  
アレルギー性皮膚反応を起こすおそれ  
生殖能又は胎児への悪影響のおそれ

・ **注意書き**

眼に入った場合: 水で数分間注意深く洗うこと。次にコンタクトレンズを着用していて容易に外せる場合は外すこと。その後も洗浄を続けること。  
炎が火薬類に届いたら消火活動をしなすこと。  
区域より退避させること。  
現地/地域/国/国際規定に従って保管する  
施錠して保管すること。  
日光から遮断すること。  
現地/地域/国/国際規定に従い内容物・容器の露出

・ **GHS分類に関係しない又はGHSで扱われない他の危険有害性**  
 ・ **PBT (残留性、生物濃縮性、毒性物質) 及び vPvB (高残留性、高生物濃縮性物質) アセスメント**  
 ・ **PBT (残留性、生物濃縮性、毒性物質):** 情報なし  
 ・ **vPvB (高残留性、高生物濃縮性物質):** 情報なし

### 項目 3: 組成及び成分情報

・ **化学物質・混合物の区別: 混合物**

説明説明説明のない混ぜ合わせかたをした以下成分からなる混合物

・ **危険な含有成分:**

84-61-7	フタル酸ジシクロヘキシル ⚠ 生殖毒性 区分1B, H360; ⚠ 感作性(皮膚) 区分1, H317	>25-≤50%
94-36-0	ジベンゾイルペルオキシド ⚠ 有機過酸化物 タイプB, H241; ⚠ 重篤な眼の損傷性/眼刺激性 区分2, H319; 感作性(皮膚) 区分1, H317	>25-≤50%

### 項目 4: 応急措置

・ **応急手当処置に関する説明**

・ **吸入した場合**

外気を十分に送り込み、安全のため医師を呼ぶ  
意識不明の場合には安定させた状態で横向きに寝かせ、移送する

・ **皮膚に付着した場合** 即刻石鹸と水で洗い、よくすすぐ

・ **眼に入った場合**

眼を開けたまま、流水で何分間か眼をすすぎ、状態がよくなる場合には医者に相談する

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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

化学品の名称 TECHNOVIT 7100 - HARDENER 1

(2ページの続き)

- ・ **飲み込んだ場合** 状態が好転しない場合には医師に相談する
- ・ **急性症状及び遅発性症状の最も重要な徴候症状** 追加的な関連情報は得られていません。
- ・ **何らかの即時医療処置及び特別治療の必要性を示す兆候** 追加的な関連情報は得られていません。

### 項目 5: 火災時の措置

- ・ **消火剤**
- ・ **適切な消火剤** 周辺の状況に合わせた消火措置を取る
- ・ **本化学物質または混合物から発生する特別な危険性** 追加的な関連情報は得られていません。
- ・ **消火活動を行う者の特別な保護具及び予防措置**
- ・ **特別な保護装備:** 特別な措置は必要としない

### 項目 6: 漏出時の措置

- ・ **人体に対する注意事項, 保護具及び緊急時措置** 必要ない
- ・ **環境に対する注意事項** 下水処理施設、地上水あるいは地下水に達しないようにする
- ・ **封じ込め及び浄化の方法及び機材** 13 項に下がい汚染材は廃棄物として処理する
- ・ **他のセクションへの言及**  
安全な取り扱い方に関しては 7 項を参照  
人の保護装備の情報に関しては 8 項を参照  
廃棄処分に関しては 13 項参照

### 項目 7: 取扱い及び保管上の注意

- ・ **取扱い** 容器は十分に注意しながら開封し、取り扱う
- ・ **火災および爆発防止に関する注意事項:**  
高温から保護する  
呼吸保護装置を用意しておく
- ・ **混融危険性を含めた安全貯蔵条件**  
保管保管保管
- ・ **保管スペースおよび容器に関する要求事項:** 特別な要求事項なし
- ・ **同じ場所に保管する際の注意事項:** 必要ない
- ・ **保管条件に関するその他の注意事項:**  
容器は密閉した状態に保つ  
熱および直射日光は避ける
- ・ **特定の最終用途** 追加的な関連情報は得られていません。

### 項目 8: ばく露防止及び保護措置

- ・ **許容濃度等**
- ・ **作業場において限界値の監視を要する成分:**  
このプロダクトは作業場において監視する必要がある限界値を持つ成分は含まれていない
- ・ **追加注意事項:** 生成時に有効なリストがもとなっている
- ・ **設備対策**
- ・ **技術設備の形体に関する追加注意事項:** その他の申し立てなし、7 項参照
- ・ **保護具**
- ・ **一般防止措置および衛生措置:**  
食物、飲み物、飼料からは遠ざける  
汚れのしみ込んだ衣類は即刻脱ぐ

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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(3ページの続き)

休憩の前、作業終了後には手を洗う  
 防護服は別に保管する  
 眼に入らないように  
 眼に入らないよう、また皮膚に接触しないよう注意する

- 呼吸保護器具: 必要ない
- 手の保護:



保護手袋

手袋の材質は物質/材料/調合剤に対して耐性であり、成分を通すことがあってはならない  
 テストをおこなっていないため、物質/調合剤/化合物を取り扱う際の手袋の材質として勧められるもの  
 はない  
 浸透時間、透過性および劣化の点を留意しながら手袋の材質を選択する

- 手袋材  
 適当な手袋は材質だけではなく、その他の品質によっても変わり、各メーカーによって異なる。調合する際の物質は複数の成分から生成されるため、手袋材の耐久性は予想できない。このため使用前には必ずチェックしなければならない
- 手袋材の浸透時間 正確な浸透時間については保護手袋メーカーに問い合わせ、それを遵守すること
- 眼の保護:



密閉式保護めがね

### 項目 9: 物理的及び化学的性質

<ul style="list-style-type: none"> <li>基本的な物理及び化学特性に関する情報</li> <li>一般指示事項</li> <li>物理状態</li> <li>色</li> <li>臭い臭い臭い</li> <li>嗅覚閾値</li> <li>融点 / 凝固点 (混合物の場合は、記載省略可)</li> <li>沸点 沸点 沸点 初沸点及び沸点範囲</li> <li>可燃 可燃 可燃</li> <li>爆発 爆発 爆発 燃界及び爆発 燃界 燃界 燃界 燃界</li> <li>下限:</li> <li>上限:</li> <li>引火点</li> <li>自然発火 自然発火 自然発火</li> <li>解温 解温 解温</li> <li>pH</li> <li>粘性:</li> <li>動粘性率</li> <li>学的 学的 学的</li> <li>溶解 溶解 溶解 混合物の場合は、記載省略可)</li> <li>水:</li> <li>分配係数 (log 値) (混合物の場合は、記載省略可)</li> <li>蒸気圧 約 20 °C</li> </ul>	<ul style="list-style-type: none"> <li>個体</li> <li>白</li> <li>特徴的</li> <li>決まっていない.</li> <li>決まっていない</li> <li>決まっていない</li> <li>火災の原因となる場合あり</li> <li>決まっていない.</li> <li>決まっていない.</li> <li>情報なし</li> <li>プロダクトは自然発火しない</li> <li>決まっていない.</li> <li>情報なし</li> <li>情報なし</li> <li>情報なし</li> <li>情報なし</li> <li>不溶性</li> <li>決まっていない.</li> <li>1 hPa</li> </ul>
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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

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### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(4ページの続き)

<ul style="list-style-type: none"> <li>・密度及び又は又は相対密度</li> <li>・密度約 20 °C: 1.24 g/cm<sup>3</sup></li> <li>対相対的密度 決まっていない。</li> <li>・蒸気密度 情報なし</li> </ul>	
<ul style="list-style-type: none"> <li>・その他のデータ</li> <li>外観外観外観</li> <li>・形: 粉末</li> <li>健康健康健康及び環境保護ならびに安全に関する重要な指示事項</li> <li>・爆発の危険: 空気と接触するしないにかかわらず、爆発の可能性</li> <li>・溶剤含有量:</li> <li>・固形物含有量: 100.0 %</li> <li>・状態の変化</li> <li>・気化速度 情報なし</li> </ul>	

### 項目 10: 安定性及び反応性

応反応性性性追加的な関連情報は得られていません。

- ・化学的安定性
- ・熱分解回避回避条件: 規定どおりの使用では分解しない
- ・危険有害腐蝕可能腐蝕危険な反応は起きていない
- 避け避け避けき条件 追加的な関連情報は得られていません。
- ・混触危険物質 追加的な関連情報は得られていません。
- ・危険有害な分解生成物 危険な分解プロダクトはない

### 項目 11: 有害性情報

- ・毒性影響影響する情報
- ・眼に対する重篤腐損傷損傷刺激機機強い眼刺激
- ・呼吸器感作性又は皮膚感作性作性アレルギー性皮膚反応を起こすおそれ
- ・毒種毒性毒種能又は胎児への悪影響のおそれ
- 誤え誤え誤有害性 追加的な関連情報は得られていません。

### 項目 12: 環境影響情報

- 毒性毒性毒性
- ・水生生物に対する毒性: 追加的な関連情報は得られていません。
- ・残留性・分解性 追加的な関連情報は得られていません。
- 生態毒種毒種毒種追加的な関連情報は得られていません。
- ・土壌中動移動性動機追加的な関連情報は得られていません。
- ・PBT (残留性、生物濃縮性、毒性物質) 及び vPvB (高残留性、高生物濃縮性物質) アセスメント
- ・PBT (残留性、生物濃縮性、毒性物質): 情報なし
- ・vPvB (高残留性、高生物濃縮性物質): 情報なし
- オゾオゾ層への有害性 追加的な関連情報は得られていません。
- 他の他他作用作用
- ・その他のHコロジ日に関する注意事項:
- ・一般注意事項:
- 水への危険度分類 1 (ドイツの規定) (自己査定): 水に対する危険性はわずかにある

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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(6ページの続き)

- ・ MARPOL 779 附属付属書類及び及びコードによるばら積み輸送される液体物質 情報なし

#### 輸送輸送輸送他の説明:

- ・ ADR
  - ・ Excepted quantities (EQ) Code: E0  
Not permitted as Excepted Quantity
- ・ IMDG
  - ・ Limited quantities (LQ) 5 kg
  - ・ Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 g  
Maximum net quantity per outer packaging: 1000 g
- ・ UN 模範規制: UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

### 項目 15: 適用法令

- ・ 該当法令の名称及びその法条に基づき規制に関する情報 追加的な関連情報は得られていません。
- ・ 化審法

#### 既存既存靶毒物質

84-61-7	フタル酸ジシクロヘキシル	3-1311
94-36-0	ジベンゾイルペルオキシド	3-1349

#### ・ 特定化学物質

内容成分はリストアップされていない

#### ・ 監視化学物質、旧第二種監視化学物質、旧第三種監視化学物質

内容成分はリストアップされていない

#### ・ 評価評価靶毒物質

内容成分はリストアップされていない

#### 物質物質物質

内容成分はリストアップされていない

#### 既存既存靶毒物質安全性点検結果 ( 姓解養積養積養積性 )

全ての内容成分はリストアップされている

#### 既存既存靶毒物質安全性点検結果 ( 毒性 )

内容成分はリストアップされていない

#### ・ PRTR 制度 - 第一種指定化学物質

内容成分はリストアップされていない

#### ・ PRTR 制度 - 第二種指定化学物質

84-61-7	フタル酸ジシクロヘキシル	78
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#### ・ 毒物及劇物取締法: 劇物

内容成分はリストアップされていない

#### ・ 毒物及劇物取締法: 有機シアン化合物から除かれるもの

内容成分はリストアップされていない

#### ・ 毒物及劇物取締法: 毒物毒物

内容成分はリストアップされていない

(8ページに続く)

# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(7ページの続き)

・ **毒物及劇物取締法:特定毒物**  
 内容成分はリストアップされていない

**労働安全衛生法**

・ **危険物**  
 ・ **爆発性の物 ( 施錠表別表第 1 号 ) 号 )**  
 94-36-0 | ジベンゾイルペルオキシド

・ **発火性の物 ( 施錠表別表第 2 号 ) 号 )**  
 内容成分はリストアップされていない

・ **酸化性の物 ( 施錠表別表第 3 号 ) 号 )**  
 内容成分はリストアップされていない

・ **引火性の物 ( 施錠表別表第 4 号 ) 号 )**  
 内容成分はリストアップされていない

**可燃性液体 ( 施錠表別表第 5 号 ) 号 )**

内容成分はリストアップされていない

・ **特定化学物質等**  
 ・ **第一類物質**  
 内容成分はリストアップされていない

**第二類物質**

内容成分はリストアップされていない

**第三類物質**

内容成分はリストアップされていない

・ **名称通知通知き有害物 ( 別表第 9 )**  
 94-36-0 | ジベンゾイルペルオキシド 282

・ **製造誘買物質物質**  
 内容成分はリストアップされていない

**鉛中鉛中毒規則規施錠表別表第 1 号 )**

内容成分はリストアップされていない

**ア四アル鉛中鉛中毒規則規施錠表別表第 2 号 )**  
 内容成分はリストアップされていない

**有機有機溶剤中毒予防規則第 ( 施錠表別表第 2 )**

・ **第一種有機溶剤等**  
 内容成分はリストアップされていない

・ **第二種有機溶剤等**  
 内容成分はリストアップされていない

・ **第三種有機溶剤等**  
 内容成分はリストアップされていない

・ **強い変異原性が認められた化学物質**  
 内容成分はリストアップされていない

・ **消防法**  
 内容成分はリストアップされていない

・ **海洋汚染防止法**  
 内容成分はリストアップされていない

(9ページに続く)

# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(8ページの続き)

#### ・特定物質規制規制物質およびオゾン層の保護に関する法律

##### ・特定物質物質物質

内容成分はリストアップされていない

##### ・特定物質

内容成分はリストアップされていない

##### ・大気汚染防止法

内容成分はリストアップされていない

##### ・水質汚濁防止法

##### ・有害物質

内容成分はリストアップされていない

##### ・指定物質

内容成分はリストアップされていない

#### ・GHS ラベル要素

本製品はGHS(化学品の分類および表示に関する世界調和システム)により分類及び表示されています。

#### ・絵表示



GHS01 GHS02 GHS07 GHS08

#### ・注意喚起語 危険

#### ・危険と定められた成分をラベル表示:

フタル酸ジシクロヘキシル  
ジベンゾイルペルオキシド

#### ・危険有害性情報

不安定爆発物  
熱すると火災のおそれ  
強い眼刺激  
アレルギー性皮膚反応を起こすおそれ  
生殖能又は胎児への悪影響のおそれ

#### ・注意書き

眼に入った場合: 水で数分間注意深く洗うこと。次にコンタクトレンズを着用していて容易に外せる場合は外すこと。その後も洗浄を続けること。  
炎が火薬類に届いたら消火活動をしなすこと。  
区域より退避させること。  
現地/地域/国/国際規定に従って保管する  
施錠して保管すること。  
日光から遮断すること。  
現地/地域/国/国際規定に従い内容物・容器の露出

#### ・化学物質の安価評価評価化学物質安全性評価が遂行されていない

### 項目 16: その他の情報

この情報は現在の我々の認識に基づいている。ただし、プロダクトの特性を保証するものではなく、また契約において法的根拠にはならない

#### ・縮約と二文字語:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association

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# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.20

バージョン番号: 1

改訂日: 2022.01.20

### 化学品の名称 TECHNOVIT 7100 - HARDENER 1

(9ページの続き)

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
PRTR/化管法: 化学物質排出把握管理促進法  
不安定火薬類: Explosives – Unstable explosive  
有機過酸化物 タイプB: Organic peroxides – Type B  
有機過酸化物 タイプD: Organic peroxides – Type C/D  
重篤な眼の損傷性/眼刺激性 区分2: Serious eye damage/eye irritation – Category 2  
重篤な眼の損傷性/眼刺激性 区分2A: Serious eye damage/eye irritation – Category 2A  
感作性(皮膚) 区分1: Skin sensitisation – Category 1  
生殖毒性 区分1B: Reproductive toxicity – Category 1B

JP



# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.01.20

개정: 2022.01.20

**제품명: TECHNOVIT 7100 - HARDENER 1**

(1 쪽부터계속)



심한 눈 손상성/눈 자극성 - 구분 2 H319 눈에 심한 자극을 일으킴  
피부 과민성은 - 구분1 H317 알레르기성 피부 반응을 일으킬 수 있음

· 라벨 표기 요소요소

· 라벨 라벨 요소

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· GHS 그림문자



GHS01 GHS02 GHS07 GHS08

· 신호어 위험

· 상표상에명확히위험성이표시된성분:

dicyclohexyl phthalate

과산화 벤조일

유해유해위험문구

- 불안정한 폭발성 물질
- 가열하면 화재를 일으킬 수 있음
- 눈에 심한 자극을 일으킴
- 알레르기성 피부 반응을 일으킬 수 있음
- 태아 또는 생식능력에 손상을 일으킬 수 있음

· 예방조치문구

- 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.
- 화염이 폭발성 물질에 도달하면 불을 끄려 하지 마시오.
- 주변 지역의 사람을 대피시키시오.
- 현지/지역/국가/국제 규정에 따라서 보관 하기
- 밀봉하여 저장 하시오.
- 직사광선을 피하십시오.
- (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

기타기타유해성

- PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성 물질)에 해당하지 않음
- PBT(잔류성, 생물농축성, 독성물질)에 해당하지 않음.
- vPvB(고 잔류성, 고 생물농축성 물질)에 해당하지 않음.

### 3 구성성분의 명칭 및 함유량

· 화학적 특성: 혼합물

설명설명설명한 첨가물 이 함유된 아래에 열거된 물질로 만들어진 혼합물.

· 위험 요소요소

84-61-7	dicyclohexyl phthalate ⚠ 생식독성 - 구분1B, H360; ⚠ 피부 과민성은 - 구분1, H317	>25-≤50%
94-36-0	과산화 벤조일 ⚠ 유기과산화물 - 형식 B, H241; ⚠ 심한 눈 손상성/눈 자극성 - 구분 2, H319; 피부 과민성은 - 구분1, H317	>25-≤50%

KR

(3 쪽에계속)



# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.01.20

개정: 2022.01.20

제품명: TECHNOVIT 7100 - HARDENER 1

(3 쪽부터계속)

## 8 노출방지 및 개인보호구

· **첨단시설 디자인에 대한 추가정보:** 더 이상 의 자료는 없음. 항 목 7 을 참고하시 오.

통제 ~~통제~~ 변수

· 화학물질의 노출기준, 생물학적 노출기준 등:

### 94-36-0 과산화 벤조일

OELV (KR)	장기간 의값: 5 mg/m <sup>3</sup>
PEL (US)	장기간 의값: 5 mg/m <sup>3</sup>
REL (US)	장기간 의값: 5 mg/m <sup>3</sup>
TLV (US)	장기간 의값: 5 mg/m <sup>3</sup> A4

· ~~추가정보~~ 정보 조 할 당시에 유 효 한 목 록 을 기초로 사용했다.

노출 ~~노출~~ 통제

개인 ~~개인~~ 보호구

· **일반적보호조치및위생조치:**

- 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전 이 나 작업이 끝날때마다 손을 씻는다.
- 방호복은 따로 보관한다.
- 눈과의 접촉을 피한다.
- 눈과 피부와의 접촉은 피한다.

· ~~호흡기 보호~~ 호흡기 보호 필요 없음.

~~보통~~ 보호보호



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.  
테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.  
투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· **장갑의재료**

적합한장갑의선택은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업종에따라서도다르게선정되어야한다. 제품은다양한재료로부터의조제로이루어지는것이기때문에, 장갑재질의안정성은사전에예측되어질수있는것이아니고, 반드시사용전에 (그안전성이) 체크되어야한다.

· **장갑재료의투과시간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

~~보통~~ 보호보호



확조이는보안경

## 9 물리화학적 특성

기본 ~~기본~~ 물리화학적 특성에 대한 정보

· 일반정보

외형의형의형

물리상태상태  
색:

가루  
하얀

(5 쪽에계속)







# 물질안전보건자료



## GHS에 따라 라벨

인쇄일자: 2022.01.20

개정: 2022.01.20

**제품명: TECHNOVIT 7100 - HARDENER 1**

(6 쪽부터 계속)

<ul style="list-style-type: none"> <li>· IATA</li> </ul>	<p style="text-align: center;">ORGANIC PEROXIDE TYPE D, SOLID</p>
<p>교통 표지(위험물 라벨)</p> <ul style="list-style-type: none"> <li>· ADR, IATA</li> </ul> 	<p>5.2 유기과산화물 5.2</p>
<p>등급(위험물 라벨)</p> <ul style="list-style-type: none"> <li>· IMDG</li> </ul> 	<p>5.2 유기과산화물 5.2</p>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>5.2 유기과산화물 5.2</p>
<ul style="list-style-type: none"> <li>· 용기등급</li> <li>· ADR, IMDG, IATA</li> </ul>	<p>누락되다</p>
<ul style="list-style-type: none"> <li>· 환경적 유해물질:</li> <li>· 해양오염물질:</li> </ul>	<p>심별 (물고기와 나무)</p>
<p>이동 시 특별 취급 조치</p> <p>위험물 라벨 코드</p> <ul style="list-style-type: none"> <li>· ECR 번호</li> <li>· Stowage Category</li> <li>· Stowage Code</li> <li>· Segregation Code</li> </ul>	<p>경고: 유기과산화물 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.</p>
<ul style="list-style-type: none"> <li>· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크물질 운송</li> </ul>	<p>해당사항 없음.</p>
<ul style="list-style-type: none"> <li>· 운송/추가정보</li> </ul>	<p>· ADR</p> <p>한정 양(제한량) (제한량 제외)</p> <ul style="list-style-type: none"> <li>· Excepted quantities (EQ)</li> </ul> <p>운송 위험물 구분</p> <p>터널 제한량 코드</p>
<ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>	<p>500 g Code: E0 Not permitted as Excepted Quantity</p> <p>2 D</p> <p>5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p>
<ul style="list-style-type: none"> <li>· UN 번호</li> </ul>	<p>UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2</p>

KR

(8 쪽에 계속)

# 물질안전보건자료 GHS에 따라 라다

인쇄일자: 2022.01.20

개정: 2022.01.20

제품명: TECHNOVIT 7100 - HARDENER 1

(7 쪽부터 계속)

## 15 법적 규제 현황

· 산업안전보건법에 의해 규제

제조제조제품금지물질:

어떠한내용물도 목록화되어있지않다

· 허가대상물질:

어떠한내용물도 목록화되어있지않다

· 관리대상유해물질:

어떠한내용물도 목록화되어있지않다

· 작업환경측정 대상 유해인자

어떠한내용물도 목록화되어있지않다

· 특수건강 집광 대상 유해인자

어떠한내용물도 목록화되어있지않다

해당 해당 수물질 또는 혼합 물에 대한 유해인자 측정 및 건강 위험 평가를 법률적인 정보가 존재하지 않습니다.

· Korean Existing Chemical Inventory

84-61-7 dicyclohexyl phthalate

KE-02215

94-36-0 과산화 벤조일

KE-09889

· 화학물질관리법

· 사고대비물질

어떠한내용물도 목록화되어있지않다

· 금지물질

어떠한내용물도 목록화되어있지않다

· 제한물질

어떠한내용물도 목록화되어있지않다

· 유독물질

94-36-0 과산화 벤조일

· 허가물질

94-36-0 과산화 벤조일

· 위험물안전관리법 (위험물 및 지정수량) 제 5: 10 킬로그램

등록 등록 물질 또는 선제 대상 화학물질

어떠한내용물도 목록화되어있지않다

· '21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질

어떠한내용물도 목록화되어있지않다

· 중점관리물 표양 지정 지정

· 표1 중점관리물질(제관전) 관련 관련

어떠한내용물도 목록화되어있지않다

· 표2 중점관리물질(제관전) 관련 관련

어떠한내용물도 목록화되어있지않다

· 라벨 라벨 요소

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

(9 쪽에 계속)

# 물질안전보건자료 GHS에 따라라다

인쇄일자: 2022.01.20

개정: 2022.01.20

**제품명: TECHNOVIT 7100 - HARDENER 1**

(8 쪽부터계속)

· **GHS 그림문자**



GHS01   GHS02   GHS07   GHS08

· **신호어 위험**

· **상표상에명확히위험성이표시된성분:**

dicyclohexyl phthalate

과산화 벤조일

**유해유해위험문구**

불안정한 폭발성 물질

가열하면 화재를 일으킬 수 있음

눈에 심한 자극을 일으킴

알레르기성 피부 반응을 일으킬 수 있음

태아 또는 생식능력에 손상을 일으킬 수 있음

· **예방조치문구**

눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.

화염이 폭발성 물질에 도달하면 불을 끄려 하지 마시오.

주변 지역의 사람을 대피시키시오.

현지/지역/국가/국제 규정에 따라서 보관 하기

밀봉 하여 저장 하시오.

직사광선을 피하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기 하시오.

· **화학물질 안전성 평가** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이 보고서는 우리 지식에 대한 오늘날의 상태에 대하여 평가하고 있다, 하지만 이 보고서는 생산 특성에 관한 보증은 기술하지 않았으며 계약적인 법률 관계에 기반을 두고 있지 않다

**당첨당자당자**

최초 최초 **작성** 일자: 2022.01.19

개정 개정 **작성** 일자: 1 / 2022.01.20

· **약어와 두문자어:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

# Helaiian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 20.01.2022

Disemak semula pada 20.01.2022

## 1 Pengenalan bahan kimia berbahaya dan pembekal

- **Pengenal pasti produk**
- **Nama dagang:** TECHNOVIT 7100 - HARDENER 1
- **Nombor artikel:** 14653(H1)
- **Kegunaan yang disarankan bagi bahan dan sekatan penggunaan** Tiadak maklumat lanjut yang diperoleh.
- **Penggunaan bahan/sediaan** Bahan kimia makmal
- **Perincian pembekal risalah data keselamatan**
- **Pengilang/Pembekal:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Maklumat lanjut dapat diperoleh daripada:** Product safety department
- **Nombor telefon kecemasan:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Pengenalan bahaya

- **Pengelasan bahan atau campuran**



Bom meletup

Bhn. Ltp. T. Stab. H200 Bahan letup tidak stabil.



Nyalaan

Peroks. Org. CD H242 Pemanasan boleh menyebabkan kebakaran.



Bahaya kesihatan

Pemb. 1B H360 Boleh merosakkan kesuburan atau janin.



Kreng. Mata 2 H319 Menyebabkan kerengsaan mata yang serius.

Pem. Kulit 1 H317 Boleh menyebabkan tindak balas alahan kulit.

- **Melabelkan unsur**
- **Unsur label GHS** Produk ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).
- **Piktogram bahaya**



GHS01



GHS02



GHS07



GHS08

(Bersambung ke halaman 2)

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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 1)

- **Kata isyarat Bahaya**
- **Komponen pelabelan yang menentukan bahaya:**  
dicyclohexyl phthalate  
dibenzoil peroksida
- **Pernyataan Bahaya**  
Bahan letup tidak stabil.  
Pemanasan boleh menyebabkan kebakaran.  
Menyebabkan kerengsaan mata yang serius.  
Boleh menyebabkan tindak balas alahan kulit.  
Boleh merosakkan kesuburan atau janin.
- **Pernyataan Berjaga-jaga**  
JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.  
JANGAN padamkan api apabila api menyambar bahan letup.  
Kosongkan kawasan.  
Simpan menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.  
Simpan di tempat berkunci.  
Lindungi daripada sinaran cahaya matahari.  
Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.
- **Bahaya lain**
- **Keputusan penilaian PBT dan vPvB**
- **PBT:** Tidak berkenaan
- **vPvB:** Tidak berkenaan

### 3 Komposisi dan maklumat mengenai ramuan bahan kimia berbahaya

- **Ciri kimia:** Campuran
- **Keterangan:** Campuran bahan disenaraikan di bawah bersama dengan bahan tambah tidak berbahaya.

· **Komponen berbahaya :**

84-61-7	dicyclohexyl phthalate ⚠ Pemb. 1B, H360; ⚠ Pem. Kulit 1, H317	>25-≤50%
94-36-0	dibenzoil peroksida ⚠ Peroks. Org. B, H241; ⚠ Kreng. Mata 2, H319; Pem. Kulit 1, H317	>25-≤50%

### 4 Langkah-langkah pertolongan cemas

- **Keterangan langkah pertolongan cemas**
- **Jika tersedut:**  
Berikan udara bersih dan pastikan rawatan doktor diperoleh.  
Jika mangsa tidak sedarkan diri, letakkan pesakit dengan stabil dalam kedudukan mengiring untuk diangkat.
- **Jika terkena kulit:** Segera basuh dengan air dan sabun serta bilas bersih-bersih.
- **Jika terkena mata:**  
Bilas mata sambil membukanya di bawah air yang mengalir selama beberapa minit. Jika gejala berterusan, hubungi doktor.
- **Jika tertelan:** Jika gejala berterusan, hubungi doktor.
- **Maklumat untuk doktor:**
- **Gejala dan kesan paling penting, akut dan lewat** Tiada maklumat lanjut yang diperoleh.

(Bersambung ke halaman 3)

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 2)

- **Arahan bagi apa-apa rawatan perubatan dan rawatan khas yang diperlukan**  
Tiada maklumat lanjut yang diperoleh.

### 5 Langkah-langkah pepadaman kebakaran

- **Bahan pepadam api**
- **Agan pepadam yang sesuai:** Gunakan kaedah pepadaman kebakaran yang sesuai dengan keadaan sekeliling.
- **Bahaya khusus yang timbul daripada bahan atau campuran** Tiada maklumat lanjut yang diperoleh.
- **Panduan kepada pepadam kebakaran**
- **Kelengkapan perlindungan:** Tiada langkah khusus diperlukan.

### 6 Langkah-langkah pelepasan tidak sengaja

- **Langkah perlindungan diri, kelengkapan pelindung dan prosedur kecemasan** Tidak diperlukan.
- **Langkah perlindungan alam sekitar:** Jangan biarkannya memasuki pembentung/air permukaan atau tanah.
- **Kaedah dan bahan untuk pembendungan dan pembersihan:**  
Lupuskan bahan tercemar sebagai sisa mengikut perkara 13.
- **Rujukan ke bahagian lain**  
Lihat Bahagian 7 untuk maklumat pengendalian yang selamat.  
Lihat Bahagian 8 untuk maklumat kelengkapan perlindungan diri.  
Lihat Bahagian 13 untuk maklumat pelupusan.

### 7 Pengendalian dan penyimpanan

- **Pengendalian:**
- **Langkah perlindungan untuk pengendalian selamat** Buka dan kendalikan bekas dengan cermat.
- **Maklumat kebakaran dan perlindungan daripada letupan:**  
Lindungi daripada haba.  
Pastikan alat perlindungan pernafasan sentiasa ada.
- **Keadaan untuk penyimpanan selamat, termasuk apa-apa ketakserasian**
- **Penyimpanan:**
- **Keperluan yang mesti dipenuhi oleh bilik stor dan ruang simpanan.** Tiada keperluan khusus.
- **Maklumat penyimpanan di dalam satu tempat penyimpanan yang biasa:** Tidak diperlukan.
- **Maklumat lanjut tentang syarat penyimpanan:**  
Pastikan bekas sentiasa bertutup rapat.  
Lindungi daripada haba dan pancaran terus cahaya matahari.
- **Kegunaan akhir yang khusus** Tiada maklumat lanjut yang diperoleh.

### 8 Kawalan pendedahan dan perlindungan diri

- **Maklumat tambahan tentang reka bentuk kemudahan teknikal:** Tiada maklumat lanjut, lihat perkara 7.
- **Parameter kawalan**

· **Ramuan dengan nilai had yang memerlukan pemantauan di tempat kerja:**

**94-36-0 dibenzoil peroksida**

PEL Nilai jangka panjang: 5 mg/m<sup>3</sup>

- **Maklumat tambahan:** Senarai yang sah semasa pembuatan digunakan sebagai asas.

(Bersambung ke halaman 4)



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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 3)

- **Kawalan pendedahan**
- **Kelengkapan perlindungan diri:**
- **Langkah perlindungan dan kebersihan am:**  
*Jauhkan daripada makanan, minuman dan makanan haiwan.  
 Segera tanggalkan semua pakaian yang tercemar dan kotor.  
 Basuh tangan sebelum berhenti rehat dan apabila kerja selesai.  
 Simpan pakaian perlindungan secara berasingan.  
 Elakkan daripada terkena mata.  
 Elakkan daripada terkena mata dan kulit.*
- **Perlindungan pernafasan:** Tidak diperlukan
- **Perlindungan tangan:**



Sarung tangan pelindung.

Bahan sarung tangan hendaklah telus dan kalis terhadap produk/bahan/sediaan.  
 Oleh sebab tiada ujian yang dijalankan, maka tiada syor bagi bahan sarung tangan yang boleh diberikan untuk produk/sediaan/campuran kimia.  
 Pemilihan bahan sarung tangan berdasarkan waktu penembusan, kadar pembauran dan degradasi.

- **Bahan sarung tangan**  
 Pemilihan sarung tangan yang sesuai bukan hanya bergantung pada bahannya, tetapi juga tanda kualiti lainnya serta perbezaannya daripada satu pengeluar dengan pengeluar yang lain. Memandangkan produk merupakan suatu sediaan daripada beberapa bahan, ketahanan bahan sarung tangan tidak boleh dipastikan terlebih dahulu, oleh itu sarung tangan hendaklah diperiksa sebelum digunakan.
- **Jangka masa penyerapan bahan sarung tangan**  
 Waktu kemunculan yang tepat hendaklah diperoleh pengeluar sarung tangan pelindung dan hendaklah dipatuhi.
- **Perlindungan mata:**



Gogal bertutup rapat

### 9 Sifat fizikal dan kimia

- |  |                              |
|--|------------------------------|
| · <b>Maklumat tentang ciri fizik dan kimia</b> |                              |
| · <b>Maklumat Am</b>                           |                              |
| · <b>Rupa:</b>                                 |                              |
| <b>Bentuk:</b>                                 | Serbuk                       |
| <b>Warna:</b>                                  | Putih                        |
| · <b>Bau:</b>                                  | Ciri                         |
| · <b>Ambang bau</b>                            | Tidak ditentukan.            |
| · <b>Nilai pH:</b>                             | Tidak berkenaan              |
| · <b>Perubahan pada keadaan</b>                |                              |
| <b>Takat lebur/takat beku</b>                  | Tidak ditentukan.            |
| <b>Takat didih awal dan julat didih</b>        | Tidak ditentukan             |
| · <b>Takat kilat:</b>                          | Tidak berkenaan              |
| · <b>Kemudahbakaran (pepejal, gas)</b>         | Boleh menyebabkan kebakaran. |
| · <b>Suhu penguraian:</b>                      | Tidak ditentukan.            |

(Bersambung ke halaman 5)

MY

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 4)

· <b>Suhu pengautocucuhan</b>	Produk tidak tercucuh sendiri
· <b>Bahaya letupan:</b>	Mudah meletup dengan atau tanpa pendedahan udara.
· <b>Had letupan :</b> <b>Bawah:</b> <b>Atas:</b>	Tidak ditentukan. Tidak ditentukan.
· <b>Tekanan wap pada 20 °C:</b>	1 hPa
· <b>Ketumpatan pada 20 °C:</b> · <b>Ketumpatan bandingan</b> · <b>Ketumpatan wap</b> · <b>Kadar penyejatan</b>	1.24 g/cm <sup>3</sup> Tidak ditentukan. Tidak berkenaan Tidak berkenaan
· <b>Keterlarutan dalam / Keterlarutcampuran dengan Air:</b>	Tidak larut.
· <b>Pekali sekatan: n-oktanol/air</b>	Tidak ditentukan.
· <b>Kelikatan:</b> <b>Dinamik:</b> <b>Kinematik:</b>	Tidak berkenaan Tidak berkenaan
· <b>Kandungan pelarut:</b>	
<b>Kandungan pepejal:</b>	100.0 %
· <b>Maklumat lain</b>	Tiada maklumat lanjut yang diperoleh.

### 10 Kestabilan dan kereaktifan

- **Kereaktifan** Tiada maklumat lanjut yang diperoleh.
- **Kestabilan kimia**
- **Penguraian termal/keadaan yang perlu dielakkan:** Tiada penguraian jika digunakan mengikut spesifikasi.
- **Kemungkinan tindak balas berbahaya** Tiada tindak balas berbahaya yang diketahui.
- **Keadaan yang perlu dielakkan** Tiada maklumat lanjut yang diperoleh.
- **Bahan tidak serasi:** Tiada maklumat lanjut yang diperoleh.
- **Produk penguraian yang berbahaya:** Tiada produk penguraian berbahaya yang diketahui.

### 11 Maklumat toksikologi

- **Maklumat tentang kesan toksikologi**
- **Ketoksikan akut:**
- **Kesan kerengsaan primer:**
- **Kakisan atau kerengsaan kulit** Tiada kesan merengsa.
- **Kerosakan atau kerengsaan mata yang serius** Kesan merengsa.
- **Pemekaan pernafasan / kulit** Pemekaan mungkin berlaku jika terkena kulit.
- **Maklumat tambahan toksikologi:**  
Produk menunjukkan bahaya berikut mengikut kaedah pengiraan Garis Panduan Pengelasan Am EU bagi Sediaan seperti yang dikeluarkan dalam versi terbaru:  
Perengsa

(Bersambung ke halaman 6)

MY

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 5)

- **Maklumat bagi kumpulan berikut tentang kesan yang mungkin timbul.**
- **Kesan CMR (karsinogen, mutagen dan gangguan kesuburan)**  
Pemb. 1B


### 12 Maklumat ekologi

- **Ketoksikan**
- **Ketoksikan akuatik:** Tiadak maklumat lanjut yang diperoleh.
- **Keterusan dan keterdegradasikan** Tiadak maklumat lanjut yang diperoleh.
- **Kelakuan dalam sistem alam sekitar:**
- **Potensi bioakumulatif** Tiadak maklumat lanjut yang diperoleh.
- **Mobiliiti di dalam tanah** Tiadak maklumat lanjut yang diperoleh.
- **Maklumat tambahan ekologi:**
- **Nota am:**  
Bahaya air kelas 1 (Peraturan Jerman) (Penilaian sendiri): sedikit berbahaya kepada air  
Jangan biarkan produk yang tidak dicairkan atau dalam kuantiti yang banyak memasuki air tanah, saluran air atau sistem pembetungan.
- **Keputusan penilaian PBT dan vPvB**
- **PBT:** Tidak berkenaan
- **vPvB:** Tidak berkenaan
- **Kesan buruk yang lain** Tiadak maklumat lanjut yang diperoleh.

### 13 Maklumat pelupusan

- **Kaedah rawatan sisa**
- **Syor:**  
Tidak boleh dilupuskan bersama dengan sampah isi rumah. Jangan biarkan produk memasuki sistem pembentungan.
- **Pembungkusan yang tidak bersih:**
- **Syor:** Pelupusan mestilah dijalankan menurut peraturan rasmi

### 14 Maklumat pengangkutan

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Nombor UN</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <p>UN3106</p>  |
| <ul style="list-style-type: none"> <li>· <b>Nama penghantaran UN yang betul</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>                                | <p>3106 ORGANIC PEROXIDE TYPE D, SOLID<br/>ORGANIC PEROXIDE TYPE D, SOLID, MARINE<br/>POLLUTANT<br/>ORGANIC PEROXIDE TYPE D, SOLID</p> |
| <ul style="list-style-type: none"> <li>· <b>pengangkutan kelas bahaya</b></li> <li>· <b>ADR, IATA</b></li> </ul>  |  |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Kelas</b></li> </ul> | <p>5.2 Peroksida organik.</p>  |

(Bersambung ke halaman 7)


## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 6)

· <b>Label</b>	5.2
· <b>IMDG</b>	
	
· <b>Class</b>	5.2 Peroksida organik.
· <b>Label</b>	5.2
· <b>Kumpulan pembungkusan</b>	
· <b>ADR, IMDG, IATA</b>	Tidak sah
· <b>Hazard persekitaran:</b>	
· <b>Bahan cemar marin:</b>	Tanda (ikan dan pokok)
· <b>Langkah perlindungan khas untuk pengguna</b>	Amaran: Peroksida organik.
· <b>Kod bahaya (Kemler):</b>	90
· <b>Nombor EMS:</b>	F-J,S-R
· <b>Stowage Category</b>	D
· <b>Stowage Code</b>	SW1 Protected from sources of heat.
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>Pengangkutan dalam pukat menurut Lampiran II MARPOL73/78 dan Kod IBC</b>	Tidak berkenaan
· <b>Pengangkutan/Maklumat Tambahan:</b>	
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>"Peraturan Model" UN:</b>	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

### 15 Maklumat pengawalseliaan

· **Peraturan/undang-undang keselamatan, kesihatan dan persekitaran khusus untuk bahan atau campuran tersebut**

Tiada maklumat lanjut yang diperolehi.

· **Senarai Rujukan Bahan Berbahaya Alam Sekitar**

Semua ramuan disenaraikan.

· **Unsur label GHS** Produk ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).

· **Piktogram hazard**



(Bersambung ke halaman 8)

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 20.01.2022

Disemak semula pada 20.01.2022

**Nama dagang: TECHNOVIT 7100 - HARDENER 1**

(Sambungan halaman 7)

· **Perkataan isyarat Bahaya**

· **Komponen pelabelan yang menentukan bahaya:**

*dicyclohexyl phthalate*

*dibenzoil peroksida*

· **Pernyataan hazard**

*Bahan letup tidak stabil.*

*Pemanasan boleh menyebabkan kebakaran.*

*Menyebabkan kerengsaan mata yang serius.*

*Boleh menyebabkan tindak balas alahan kulit.*

*Boleh merosakkan kesuburan atau janin.*

· **Pernyataan langkah perlindungan**

*JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.*

*JANGAN padamkan api apabila api menyambar bahan letup.*

*Kosongkan kawasan.*

*Simpan menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.*

*Simpan di tempat berkunci.*

*Lindungi daripada sinaran cahaya matahari.*

*Lupuskan kandungan/bekas menurut peraturan tempatan/wilayah/kebangsaan/antarabangsa.*

· **Penilaian keselamatan bahan kimia:** *Penilaian Keselamatan Bahan Kimia belum dilakukan.*

### 16 Maklumat lain

*Maklumat ini berdasarkan maklumat kami yang terkini. Walau bagaimanapun, ini tidak akan menjadi jaminan bagi apa-apa ciri produk yang khusus dan tidak akan mewujudkan hubungan kontraktual yang sah dari segi undang-undang.*

· **Hubungi:**

· **Singkatan dan akronim:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Bhn. Ltp. T. Stab.: Bahan letup – Bahan letup tidak stabil*

*Peroks. Org. B: Peroksida organik – Jenis B*

*Peroks. Org. CD: Peroksida organik – Jenis C/D*

*Kreng. Mata 2: Kerosakan mata atau kerengsaan mata yang serius – Kategori 2*

*Pem. Kulit 1: Pemekaan kulit – Kategori 1*

*Pemb. 1B: Ketoksikan pembiakan – Kategori 1B*

# 安全資料表

## 據根根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

### 1 化學品與廠商資料

- 產品識別者
- 化學品中文名稱、名稱、化學品俗名或商品名: **TECHNOVIT 7100 - HARDENER 1**
- 商品編號: 14653(H1)
- 相應純物質或者混合物的相關下位用途及禁止用途 無相關詳細資料。
- 物質或混合物的用途 實驗室化學物
- 安全技術說明書內供應商詳細信息
- 企業名稱:  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- 可獲取更多資料的部門: Product safety department
- 緊急聯繫電話號碼:  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 危害辨識資料

- 緊急情況概述:  
白色，粉末，不穩定爆炸物。遇熱可能起火。造成嚴重眼睛刺激。可能造成皮膚過敏。可能對生育能力或對胎兒造成傷害。
- GHS危險性類別
 

	爆炸的炸彈		
	不穩定爆炸物	H200	不穩定爆炸物
	火焰		
	有機過氧化物 D型	H242	遇熱可能起火
	健康危險		
	生殖毒性物質 第1B級	H360	可能對生育能力或對胎兒造成傷害
			
	嚴重損傷/刺激眼睛物質 第2A級	H319	造成嚴重眼睛刺激
	皮膚過敏物質 第1級	H317	可能造成皮膚過敏
- 標籤要素
- GHS標籤元素 本產品根據化學物質分類及標記全球協調制度(GHS)進行了分類及標記。

(在 2 頁繼續)

TW

# 安全資料表

## 據根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱名稱化學品俗名或商品名：TECHNOVIT 7100 - HARDENER 1

(在 1 頁繼續)

## · 象形圖



GHS01 GHS02 GHS07 GHS08

## · 警示詞 危險

## · 標籤上辨別危險的成份:

1,2-苯二甲酸1,2-二環己基酯  
過氧化二苯甲醯 [糊狀物,52% < 含量≤62%]

## · 危險性說明

不穩定爆炸物  
遇熱可能起火  
造成嚴重眼睛刺激  
可能造成皮膚過敏  
可能對生育能力或對胎兒造成傷害

## · 防範說明

## · 應急措施

如進入眼睛：用水小心清洗數分鐘。如帶隱形眼鏡且可方便地取出，取出隱型眼鏡。繼續清洗。  
火燒到爆炸物時切勿滅火。  
撤離現場。

## · 貯存貯存貯存

按照地方 / 區域 / 國家 / 國際法規儲存。  
加鎖存放。  
避免日曬。

## · 處置處置處置

按照地方/區域/國家/國際法規處理內容物之廢棄/容器。

## · 其他有害性

· PBT(殘留性、生物濃縮性、毒性物質) 及 vPvB(高殘留性、高生物濃縮性物質)評價結果  
· PBT(殘留性、生物濃縮性、毒性物質) 不適用的  
· vPvB(高殘留性、高生物濃縮性物質): 不適用的

### 3 成分辨識資料

## · 混合物

描述描述描述以下含有無害添加濟的成分組成的混合物

## · 危險的成分:

84-61-7	1,2-苯二甲酸1,2-二環己基酯 ⚠ 生殖毒性物質 第1B級, H360; ⚠ 皮膚過敏物質 第1級, H317	>25-≤50%
94-36-0	過氧化二苯甲醯 [糊狀物,52% < 含量≤62%] ⚠ 有機過氧化物 B型, H241; ⚠ 嚴重損傷/刺激眼睛物質 第2級, H319; 皮膚過敏物質 第1級, H317	>25-≤50%

### 4 急救措施

## · 應急措施要領

## 吸入吸入吸入

供給新鮮空氣並且確保會叫醫生。  
萬一病人不清醒時,請讓病人側趟以便移動。

· 皮膚接觸: 馬上用水和肥皂進行徹底的沖洗。

(在 3 頁繼續)

# 安全資料表

## 據根根據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱,化學品俗名或商品名: TECHNIVIT 7100 - HARDENER 1

(在 2 頁繼續)

- **眼睛接觸:** 張開眼睛在流水下沖洗數分鐘. 如果症狀仍然持續,請諮詢醫生.
- **食入:** 如果症狀仍然持續,請諮詢醫生.

### 給醫生的資料:

- **最重要的急慢性症狀及其影響:** 無相關詳細資料.
- **需要及時的醫療處理及特別處理的症狀:** 無相關詳細資料.

## 5 滅火措施

- **滅火方法**
- **滅火的方法和滅火劑:** 使用適合四周環境的滅火措施.
- **特別危險性:** 無相關詳細資料.
- **特殊滅火方法**
- **消防人員特殊的防護裝備:** 沒有要求特別的措施.

## 6 洩漏處理方法

- **保護措施:** 沒有要求.
- **環境保護措施:** 切勿讓其進入下水道/水面或地下水.
- **密封及淨化方法和材料:** 根據第 13 條條款棄置受污染物.
- **參照其他部分**
  - 有關安全處理的資料請參閱第 7 節.
  - 有關個人保護裝備的資料請參閱第 8 節.
  - 有關棄置的資料請參閱第 13 節.

## 7 安全處置與儲存方法

- **操作處置**
- **儲存:** 儲存時, 打開及處理貯藏器.
- **有關火災及防止爆炸的資料:**
  - 防熱.
  - 提供呼吸保護裝置.
- **混合危險性等安全儲存條件**
- **儲存:** 儲存
- **儲存庫和容器須要達到的要求:** 沒有特別的要求.
- **有關使用一個普通的儲存設施來儲存的資料:** 不需要.
- **有關儲存條件的更多資料:**
  - 將容器密封.
  - 免受接觸熱力和直接受陽光照射.
- **具體的最終用戶:** 無相關詳細資料.

## 8 暴露預防措施

- **工程控制方法:** 沒有進一步數據,見第 7 項.
- **控制變數**

### 在工作場需要監控的限值成分

94-36-0 過氧化二苯甲醯 [糊狀物, 52% < 含量 ≤ 62%]

PEL (TW) PC-TWA: 5 mg/m<sup>3</sup>

OEL (CN) PC-TWA: 5 mg/m<sup>3</sup>

(在 4 頁繼續)



# 安全資料表

## 據根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱名稱： TECHNIVIT 7100 - HARDENER 1

(在 3 頁繼續)

· **額外的資料:** 制作期間有效的清單將作為基礎來使用。

· **遺漏控制**

· **個人防護設備:**

· **一般保護和衛生措施:**

遠離食品、飲料和飼料。

立即除去所有的不潔的和被汙染的衣服。

在休息之前和工作完畢後請清洗雙手。

分開儲存保護性衣服。

避免和眼睛接觸。

避免和眼睛及皮膚接觸。

· **呼吸系統防護:** 不需要。

· **手防護:**



保護手套

手套的物料必須是不滲透性的,且能抵抗該產品/物質/添加劑。

基於缺乏測試,對於產品/制劑/化學混合物,並不會提供手套材料的建議

選擇手套材料時,請注意材料的滲透時間,滲濾率和降解參數

· **手套材料**

選擇合適的手套不單取決於材料,亦取決於質量特征,以及來自哪一間生產廠家,因為該產品是由很多材料配製而成,手套材料的抵抗力並不可預計,所以,必須在使用之前進行檢查

· **滲入手套材料的時間** 請向勞保手套生產廠家獲取準確的破裂時間並觀察實際的破裂時間

· **眼睛防護:**



密封的護目鏡

## 9 物理及化學性質

· **有關基本物理及化學特性的資訊**

· **一般說明**

外觀外觀外觀

形狀形狀形狀

粉末

顏色顏色顏色

白色

氣味氣味氣味

有特性的

· **嗅覺閾限**

未決定。

· **pH值:**

不適用的

· **條件的更改**

熔點熔點熔點

未確定的

沸點沸點沸點和沸程:

未確定的

閃點閃點閃點

不適用的

· **可燃性(固體、氣體):** 可能引起火災。

· **分解溫度:**

未決定。

· **自燃溫度:**

該產品是不自燃的

· **爆炸的危險性:**

不論和空氣接觸與否都具有爆炸性。

(在 5 頁繼續)



# 安全資料表

## 據根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱名稱： TECHNIVIT 7100 - HARDENER 1

(在 5 頁繼續)

### 12 生態資料

- 毒態毒性毒性
- 水生毒性: 無相關詳細資料。
- 持久性和降解性降解性降解性相關詳細資料。
- 環境系統習性:
- 潛在的累積性相關詳細資料。
- 土壤土壤動植物相關詳細資料。
- 額外的生態學資料:
- 總括注解:
  - 水危害級別 1(德國規例) (通過名單進行自我評估): 對水是稍微危害的
  - 不要讓未稀釋或大量的產品接觸地下水、水道或者污水系統。
- PBT(殘留性、生物濃縮性、毒性物質) 及 vPvB(高殘留性、高生物濃縮性物質) 評價結果
- PBT(殘留性、生物濃縮性、毒性物質) 不適用的
- vPvB(高殘留性、高生物濃縮性物質): 不適用的
- 其他其他備用無相關詳細資料。

### 13 廢棄處置方法

- 廢棄廢棄處置方法
- 建議建議建議將該產品和家居垃圾一起丟棄. 不要讓該產品接觸污水系統.
- 受污染的容器和包裝:
- 建議建議建議根據官方的規章來丟棄.

### 14 運送資料

聯合聯危聯危險運輸編號(UN號)

- ADR, IMDG, IATA UN3106

適當適當運輸名

- ADR 3106 ORGANIC PEROXIDE TYPE D, SOLID
- IMDG ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT
- IATA ORGANIC PEROXIDE TYPE D, SOLID

運輸運輸危險等級

- ADR, IATA



- 級別 5.2 有機 過氧化物
- 標籤標籤標籤 5.2

- IMDG



- Class 5.2 有機 過氧化物

(在 7 頁繼續)

# 安全資料表

## 據根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱名稱化學品俗名或商品名：TECHNOVIT 7100 - HARDENER 1

(在 6 頁繼續)

· Label	5.2
· 包裝組別	
· ADR, IMDG, IATA	無效
· 環境危害	
· 海運標藥物質物質	象徵符號 (魚和樹)
· 用戶特別預防措施	警告: 有機過氧化物
· 危險編碼:	90
· 標碼號碼號碼	F-J,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· MARPOL73/78(針對船舶引起的海洋污染預防協約協約 件附件書根據根據C國際國際船貨物編碼)的大量 運送運送運送	不適用的
運輸運輸運輸的資料:	
· ADR	
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "標準規定":	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

### 15 法規資料

- 對相應純物質或者混合物的安全、保健及環境法規/法律 無相關詳細資料。
- 優先管理化學品之指定及運作管理辦法

附表附表對於未滿十八歲嬰孩或嬰孩後未滿女年女性勞工工具危害性之化學品

沒有列出成份

二條二條二條二條

沒有列出成份

二條二條二條二條

94-36-0 過氧化二苯甲醯 [糊狀物,52% &lt; 含量≤62%]

· 新化學物質及既有化學物質資料登錄辦法 英

沒有列出成份

國現國現國現國現

列出所有成分

· TCSCA

列管編號編號編號

84-61-7 1,2-苯二甲酸1,2-二環己基酯

68/13

(在 8 頁繼續)

# 安全資料表

## 據根據據據性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

化學品中文名稱名稱名稱： TECHNIVIT 7100 - HARDENER 1

(在 7 頁繼續)

## · 毒性分類

84-61-7	1,2-苯二甲酸1,2-二環己基酯	4
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## · 管制濃度 ( w/w% )

84-61-7	1,2-苯二甲酸1,2-二環己基酯	10
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## · 大量運作基準(公斤)

84-61-7	1,2-苯二甲酸1,2-二環己基酯	-
---------	-------------------	---

## · 新化學物質及既有化學物質資料登錄辦法, 附表六

沒有列出成份

## · TCSI - Taiwan Chemical Substance Inventory

列出所有成分

· GHS標籤元素 本產品根據化學物質分類及標記全球協調制度(GHS)進行了分類及標記。

## · 象形圖



GHS01 GHS02 GHS07 GHS08

## 警示 警告 危險

## · 標籤上辨別危險的成份:

1,2-苯二甲酸1,2-二環己基酯  
過氧化二苯甲醯 [糊狀物, 52% < 含量 ≤ 62%]

## · 危險性說明

不穩定爆炸物  
遇熱可能起火  
造成嚴重眼睛刺激  
可能造成皮膚過敏  
可能對生育能力或對胎兒造成傷害

## · 防範說明

## · 應急措施

如進入眼睛：用水小心清洗數分鐘。如帶隱形眼鏡且可方便地取出，取出隱形眼鏡。繼續清洗。  
火燒到爆炸物時切勿滅火。  
撤離現場。

## 貯存 貯存 貯存

按照地方 / 區域 / 國家 / 國際法規儲存。  
加鎖存放。  
避免日曬。

## 處置 處置 處置

按照地方 / 區域 / 國家 / 國際法規處理內容物之廢棄 / 容器。

· 化學物質安全性評價: 尚未進行化學物質安全性評價

## 16 其他資料

該資料是基於我們目前的知識。然而,這並不構成對任何特定產品特性的擔保並且不建立一個法律上有效的合同關係。

## · 聯絡:

## · 縮寫:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association

(在 9 頁繼續)

# 安全資料表

## 據根根據據害性化學品標示及通識規則

打印日期 2022.01.20

在 2022.01.20 審核

**化學品中文名稱名稱名稱： TECHNIVIT 7100 - HARDENER 1**

(在 8 頁繼續)

EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: 持久性生物累積性有毒物質  
vPvB: very Persistent and very Bioaccumulative  
不穩定爆炸物: Explosives – Unstable explosive  
有機過氧化物 B型: Organic peroxides – Type B  
有機過氧化物 D型: Organic peroxides – Type C/D  
嚴重損傷/刺激眼睛物質 第2級: Serious eye damage/eye irritation – Category 2  
嚴重損傷/刺激眼睛物質 第2A級: Serious eye damage/eye irritation – Category 2A  
皮膚過敏物質 第1級: Skin sensitisation – Category 1  
生殖毒性物質 第1B級: Reproductive toxicity – Category 1B

-TW-

# Sikkerhetsdatablad

iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 20.01.2022

revidert den: 20.01.2022

## Avsnitt 1: Identifikasjon av stoffet/stoffblandingen og av selskapet/foretaket

### · 1.1 Produktidentifikator

· Handelsnavn: **TECHNOVIT 7100 - HARDENER 1**

· Artikelnummer: 14653(H1)

· UFI: T050-H0T2-T008-6UE4

· 1.2 Relevante identifiserte bruksområder for stoffet eller stoffblandingen og bruk som frarådes  
Ikke noe mer relevant informasjon tilgjengelig.

· Bruk av stoffet/ tilberedning laboratoriekjemikalier

### · 1.3 Opplysninger om leverandøren av sikkerhetsdatabladet

#### · Produsent/leverandør:

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

· Avdeling for nærmere informasjon: Product safety department

### · 1.4 Nødtelefonnummer

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## Avsnitt 2: Fareidentifikasjon

### · 2.1 Klassifisering av stoffet eller stoffblandingen

· Klassifisering i henhold til EC-forskrift nr.1272/2008



GHS01 Eksploderende bombe

Unst. Expl. H200 Ustabile eksplosive varer.



GHS08 Helsefare

Repr. 1B H360D Kan gi fosterskader.



GHS07

Eye Irrit. 2 H319 Gir alvorlig øyeirritasjon.

Skin Sens. 1 H317 Kan utløse en allergisk hudreaksjon.

Org. Perox. D H242 Brannfarlig ved oppvarming.

### · 2.2 Merkingselementer

· Merking iht. bestemmelse (EC) Nr. 1272/2008

Produktet er klassifisert og merket i henhold til CLP-forordningen.

### · Farepiktogrammer



GHS01



GHS07



GHS08

(fortsatt på side 2)

# Sikkerhetsdatablad

## iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 20.01.2022

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**Handelsnavn: TECHNOVIT 7100 - HARDENER 1**

(fortsatt fra side 1)

- **Varselord Fare**

- **Farebestemmende komponenter ved etikettering:**

dicyclohexyl phthalate

dibenzoylperoksid

- **Faresetninger**

H200 Ustabile eksplosive varer.

H242 Brannfarlig ved oppvarming.

H319 Gir alvorlig øyeirritasjon.

H317 Kan utløse en allergisk hudreaksjon.

H360D Kan gi fosterskader.

- **Sikkerhetssetninger**

P305+P351+P338 VED KONTAKT MED ØYNENE: Skyll forsiktig med vann i flere minutter. Fjern eventuelle kontaktlinser dersom dette enkelt lar seg gjøre. Fortsett skyllingen.

P373 IKKE bekjemp brannen når den når eksplosive varer.

P380 Evakuer området.

P401 Oppbevares i samsvar med lokale/regionale/nasjonale/internasjonale forskrifter.

P405 Oppbevares innelåst.

P410 Beskyttes mot sollys.

P501 Innholdet / emballasjen skal avhendes i henhold til de lokale / regionale / nasjonale / internasjonale forskrifter.

- **2.3 Andre farer**

- **Resultater av PBT- og vPvB-vurdering**

- **PBT:** Ikke brukbar.

- **vPvB:** Ikke brukbar.

### Avsnitt 3: Sammensetning/opplysninger om bestanddeler

- **3.2 Kjemisk karakterisering: Stoffblandinger**

- **Beskrivelse:** Blanding av nedenstående oppførte stoffer med ufarlige tilsetninger.

- **Farlige innholdsstoffer:**

CAS: 84-61-7	dicyclohexyl phthalate	>25-≤50%
EINECS: 201-545-9	⚠ Repr. 1B, H360D; ⚠ Skin Sens. 1, H317	
CAS: 94-36-0	dibenzoylperoksid	>25-≤50%
EINECS: 202-327-6	⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	

- **SVHC**

84-61-7 dicyclohexyl phthalate

- **Ytterligere informasjoner:** Teksten til de fareangivelsene som er inkludert her, kan konsulteres i kapittel 16.

### Avsnitt 4: Førstehjelpstiltak

- **4.1 Beskrivelse av førstehjelpstiltak**

- **Etter innånding:**

Rikelig frisklufttilførsel, søk legehjelp for sikkerhets skyld.

Ved bevisstløshet lagring og transport i stabil sidestilling.

- **Etter hudkontakt:** Vask straks med vann og sepe og skyll godt etterpå.

- **Etter øyekontakt:**

Skyll øynene med åpne øyenlokk i flere minutter under rennende vann. Ved fortsatt besvær tilkall lege.

- **Etter svelging:** Ved fortsatt besvær må lege konsulteres.

- **4.2 De viktigste symptomene og virkningene, både akutte og forsinkede**

Ikke noe mer relevant informasjon tilgjengelig.

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# Sikkerhetsdatablad

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- **4.3 Angivelse av om umiddelbar legehjelp og spesialbehandling er nødvendig**  
Ikke noe mer relevant informasjon tilgjengelig.

### Avsnitt 5: Brannsløkkingstiltak

- **5.1 Slokkingsmidler**
- **Egnede slukningsmidler:** Brannslukningstiltak tilpasses omgivelsene.
- **5.2 Særlige farer knyttet til stoffet eller stoffblandingen** Ikke noe mer relevant informasjon tilgjengelig.
- **5.3 Råd til brannmannskaper**
- **Spesielt verneutstyr:** Ingen spesielle tiltak nødvendig.

### Avsnitt 6: Tiltak ved utilsiktede utslipp

- **6.1 Personlige forsiktighetsregler, personlig verneutstyr og nødrutiner** Ikke nødvendig.
- **6.2 Forsiktighetsregler med hensyn til miljø** La ikke produktet komme ned i kloakk/overflatevann/grunnvann.
- **6.3 Metoder og materialer for oppsamling og rensing**  
Bortskaff kontaminert materiale som avfall i.h.t. punkt 13.
- **6.4 Henvisning til andre avsnitt**  
Informasjoner om sikker håndtering, se kapittel 7.  
Informasjoner om personlig beskyttelsesutstyr, se kapittel 8.  
Informasjoner om bortskaffelse/deponering, se kapittel 13.

### Avsnitt 7: Håndtering og lagring

- **7.1 Forsiktighetsregler for sikker håndtering** Beholderne må åpnes og håndteres forsiktig.
- **Henvisninger om brann- og eksplosjonsvern:**  
Beskytt mot varme.  
Hold åndedrettsbeskyttelse i beredskap.
- **7.2 Vilkår for sikker lagring, herunder eventuelle uforenligheter**
- **Lagring:**
- **Krav til lagerrom og beholdere:** Ingen spesielle krav.
- **Informasjoner om felles lagring:** Ikke nødvendig.
- **Ytterligere informasjoner om lagervilkårene:**  
Hold beholderne tett tillukket.  
Beskyttes mot varme og direkte solpåvirkning.
- **7.3 Særlig(e) sluttanvendelse(r)** Ikke noe mer relevant informasjon tilgjengelig.

### Avsnitt 8: Eksponeringskontroll / personlig verneutstyr

- **8.1 Kontrollparametere**
- **Ytterligere informasjoner om utforming av tekniske anlegg:** Ingen ytterligere informasjoner, se punkt 7.

- **Komponenter med grenseverdier for arbeidsplass som må overholdes:**

94-36-0 dibenzoylperoksid

AG Langtidsverdi: 5 mg/m<sup>3</sup>

A

- **Ytterligere informasjoner:** Basis: listene som var gyldige ved oppstillingen.

(fortsatt på side 4)

NO

# Sikkerhetsdatablad

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(fortsatt fra side 3)

- **8.2 Eksponeringskontroll**
- **Personlig verneutstyr:**
- **Generelle verne- og hygienetiltak:**  
Holdes adskilt fra næringsmidler, drikkevarer og fôrstoffer.  
Fjern omgående forurensede, gjennomvåtede klær.  
Vask hendene før arbeidspauser og ved arbeidets slutt.  
Beskyttelsesklær må oppbevares adskilt.  
Unngå berøring med øynene.  
Unngå berøring med øyne og hud.
- **Åndedrettsvern:** Ikke nødvendig.
- **Håndvern:**



Beskyttelseshansker

Hanskematerialet må være ugjennomtrengelig og bestandig overfor produktet /stoffet /blandingen. På grunn av manglende tester kan det ikke gis noen anbefaling om hanskemateriale for produktet / tilberedningsprosessen/kjemikalieblandingen. Hanskematerialet velges under hensyntagen til holdbarhetstid, gjennomtrengelighet og degradering.

- **hanskemateriale**  
Valget av egnet hanske er ikke bare avhengig av materiale, men også av andre kvalitetskjenner og er forskjellig fra produsent til produsent. Da produktet representerer en sammensetning av flere stoffer, kan holdbarheten av hanskematerialet ikke forhåndsregnes, og denne må testes før bruk.
- **gjennomtrengingstid for hanskemateriale**  
Den nøyaktige holdbarhetstiden må bringes på det rene hos hanskeprodusenten og overholdes.
- **Øyevern:**



Tettsittende vernebrille

## Avsnitt 9: Fysiske og kjemiske egenskaper

- **9.1 Opplysninger om grunnleggende fysiske og kjemiske egenskaper**
- **alminnelige opplysninger**
- **Utseende:**

<b>Form:</b>	Pulver
<b>Farge:</b>	Hvit
- **Lukt:** Karakteristisk
- **Lukterskel:** Ikke bestemt.
- **pH-verdi:** Ikke brukbar.
- **Tilstandsending**

<b>Smeltepunkt/frysepunkt:</b>	Ikke bestemt.
<b>Startkokepunkt og kokeområde:</b>	Ikke bestemt.
- **Flammepunkt:** Ikke brukbar.
- **Antennelighet (fast stoff, gass):** Kan forårsake brann
- **Nedbrytingstemperatur:** Ikke bestemt.

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(fortsatt fra side 4)

· <b>Selvantennelsestemperatur:</b>	Produktet er ikke selvantennelig.
· <b>Ekspllosive egenskaper:</b>	Ekspllosjonsfarlig ved og uten kontakt med luft
· <b>Ekspllosjonsgrenser:</b>	
<b>Nedre:</b>	Ikke bestemt.
<b>Øvre</b>	Ikke bestemt.
· <b>Damptrykk ved 20 °C:</b>	1 hPa
· <b>Tetthet ved 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Relativ tetthet:</b>	Ikke bestemt.
· <b>Damptetthet:</b>	Ikke brukbar.
· <b>Fordampingshastighet:</b>	Ikke brukbar.
· <b>Løslighet i / blandbarhet med vann:</b>	Uløslig.
· <b>Fordelingskoeffisient; n-oktanol/vann:</b>	Ikke bestemt.
· <b>Viskositet:</b>	
<b>Dynamisk:</b>	Ikke brukbar.
<b>Kinematisk:</b>	Ikke brukbar.
· <b>Løsningsmiddelandel:</b>	
<b>Andel faste stoffer:</b>	100,0 %
· <b>9.2 Andre opplysninger</b>	Ikke noe mer relevant informasjon tilgjengelig.

### Avsnitt 10: Stabilitet og reaktivitet

- **10.1 Reaktivitet** Ikke noe mer relevant informasjon tilgjengelig.
- **10.2 Kjemisk stabilitet**
- **Termisk spaltning / vilkår som må unngås:** Ingen spaltning ved formålsriktig bruk.
- **10.3 Risiko for farlige reaksjoner** Det kjennes ingen farlige reaksjoner.
- **10.4 Forhold som skal unngås** Ikke noe mer relevant informasjon tilgjengelig.
- **10.5 Uforenlige materialer** Ikke noe mer relevant informasjon tilgjengelig.
- **10.6 Farlige nedbrytingsprodukter** Ingen farlige spaltningsprodukter kjente.

### Avsnitt 11: Toksikologiske opplysninger

- **11.1 Opplysninger om toksikologiske virkninger**
- **Akutt giftighet** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Primær irritasjonsvirkning:**
- **Hudetsing/hudirritasjon** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Alvorlig øyeskade/øyeirritasjon**  
Gir alvorlig øyeirritasjon.
- **Sensibilisering ved innånding eller hudkontakt**  
Kan utløse en allergisk hudreaksjon.
- **Informasjon om følgende grupper med potensielle virkninger:**
- **CMR-virkninger (kreftfremkallende virkninger, arvestoffskadelige og reproduksjonsskadelige virkninger)**
- **Arvestoffskadelig virkning på kjønnseller** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Kreftframkallende egenskap** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Reproduksjonstoksisitet**  
Kan gi fosterskader.

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- **STOT – enkelteksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **STOT – gjentatt eksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Aspirasjonsfare** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.


## Avsnitt 12: Økologiske opplysninger

- **12.1 Giftighet**
- **Akvatisk toksisitet:** Ikke noe mer relevant informasjon tilgjengelig.
- **12.2 Persistens og nedbrytbarhet** Ikke noe mer relevant informasjon tilgjengelig.
- **12.3 Bioakkumuleringsevne** Ikke noe mer relevant informasjon tilgjengelig.
- **12.4 Mobilitet i jord** Ikke noe mer relevant informasjon tilgjengelig.
- **Ytterligere økologiske informasjoner:**
- **Generelle informasjoner:**  
Vannfareklasse 1 (D) (Selvklassifisering): lett farlig for vann  
Ikke la stoffet komme ufortynnet ned i grunnvannet, i vassdrag eller i kloakker.
- **12.5 Resultater av PBT- og vPvB-vurdering**
- **PBT:** Ikke brukbar.
- **vPvB:** Ikke brukbar.
- **12.6 Andre skadevirkninger** Ikke noe mer relevant informasjon tilgjengelig.

## Avsnitt 13: Sluttbehandling

- **13.1 Avfallsbehandlingsmetoder**
- **Anbefaling:** Må ikke bortskaffes sammen med husholdningsavfall. Må ikke komme ned i kloakk.
- **Ikke rengjort emballasje:**
- **Anbefaling:** Deponering i henhold til myndighetenes forskrifter.

## Avsnitt 14: Transportopplysninger

- |                                      |   |
|--------------------------------------|---|
| · <b>14.1 FN-nummer</b>              |   |
| · <b>ADR, IMDG, IATA</b>             | UN3106  |
| · <b>14.2 FN-forsendelsesnavn</b>    |   |
| · <b>ADR</b>                         | 3106 ORGANISK PEROKSID TYPE D, I FAST FORM  |
| · <b>IMDG</b>                        | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT                                    |
| · <b>IATA</b>                        | ORGANIC PEROXIDE TYPE D, SOLID  |
| · <b>14.3 Transportfareklasse(r)</b> |   |
| · <b>ADR, IATA</b>                   |   |
|                                      |  |
| · <b>klasse</b>                      | 5.2 Organiske peroksider  |
| · <b>Fareseddel</b>                  | 5.2   |

(fortsatt på side 7)

NO

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· **IMDG**

· **Class** 5.2 Organiske peroksider  
 · **Label** 5.2

· **14.4 Emballasjegruppe**  
 · **ADR, IMDG, IATA** bortfaller

· **14.5 Miljøfarer**  
 · **Marine pollutant:** Symbol (fisk og treet)

· **14.6 Særlige forsiktighetsregler ved bruk** Advarsel: Organiske peroksider  
 · **Farenummer (Kemler-tall):** 90  
 · **EMS-nummer:** F-J,S-R  
 · **Stowage Category** D  
 · **Stowage Code** SW1 Protected from sources of heat.  
 · **Segregation Code** SG35 Stow "separated from" SGG1-acids  
 SG36 Stow "separated from" SGG18-alkalis.

· **14.7 Bulktransport i henhold til vedlegg II til MARPOL 73/78 og IBC-regelverket** Ikke brukbar.

· **Transport/ytterligere informasjoner:**

· **ADR**  
 · **Begrenset mengde (LQ)** 500 g  
 · **Unntatte mengder (EQ)** Kode: E0  
 Ikke tillatt som unntatte mengder  
 · **Transportkategori** 2  
 · **Tunnel restriksjonskode** D

· **IMDG**  
 · **Limited quantities (LQ)** 5 kg  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 g  
 Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":** UN 3106 ORGANISK PEROKSID TYPE D, I FAST FORM, 5.2

## Avsnitt 15: Opplysninger om regelverk

· **15.1 Særlige bestemmelser / særskilt lovgivning om sikkerhet, helse og miljø for stoffet eller stoffblandingen**

- **Direktiv 2012/18/EU**
- **Spesifiserte farlige stoffer - VEDLEGG I** ingen av innholdsstoffene er listet opp
- **Seveso kategori P1a**
- **Mengdegrense (i tonn) for anvendelsen av krav til virksamheter på lavere nivå** 10 t
- **Mengdegrense (i tonn) for anvendelsen av krav til virksamheter på høyere nivå** 50 t
- **Forordning (EF) nr. 1907/2006 VEDLEGG XVII Begrensninger:** 30

· **Direktiv 2011/65/EF om begrensning av bruken av visse farlige stoffer i elektrisk og elektronisk utstyr - Vedlegg II**

ingen av innholdsstoffene er listet opp

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**· Forordning (EF) nr. 273/2004 om utgangsstoffer for narkotika**

ingen av innholdsstoffene er listet opp

**· Forordning (EF) nr. 111/2005 om fastsettelse av regler for overvåking av handelen med utgangsstoffer for narkotika mel-lom Fellesskapet og tredjestater**

ingen av innholdsstoffene er listet opp

**· Nasjonale forskrifter:**
**· Andre forskrifter, restriksjoner og forbudsforordninger**
**· Stoffer som gir stor grunn til bekymring iflg. REACH, artikkel 57**

84-61-7 dicyclohexyl phthalate

**· 15.2 Vurdering av kjemikaliesikkerhet En kjemisk sikkerhetsvurdering er ikke utført.**

### Avsnitt 16: Andre opplysninger

Opplysningene er basert på vårt kjennskap i dag. De utgjør dog ingen forsikring om produktegenskaper og er ikke grunnlag for noe kontraktmessig rettsforhold.

**· Relevante satser**

H241 Brann- eller eksplosjonsfarlig ved oppvarming.

H317 Kan utløse en allergisk hudreaksjon.

H319 Gir alvorlig øyeirritasjon.

H360D Kan gi fosterskader.

**· Forkortelser og akronymer:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Eksplosive varer – Ustabil eksplosiv vare

Org. Perox. B: Organiske peroksider – Type B

Org. Perox. D: Organiske peroksider – Type C/D

Eye Irrit. 2: Alvorlig øyeskade/øyeirritasjon – Kategori 2

Skin Sens. 1: Hudsensibilisering – Kategori 1

Repr. 1B: Reproduksjonstoksisitet – Kategori 1B

**Ficha de dados de segurança**  
em conformidade com 1907/2006/CE, Artigo 31°

data da impressão 20.01.2022

Revisão: 20.01.2022

### SECÇÃO 1: Identificação da substância/mistura e da sociedade/empresa

- **1.1 Identificador do produto**
- **Nome comercial:** TECHNOVIT 7100 - HARDENER 1
- **Código do produto:** 14653(H1)
- **UFI:** T050-H0T2-T008-6UE4
- **1.2 Utilizações identificadas relevantes da substância ou mistura e utilizações desaconselhadas**  
Não existe mais nenhuma informação relevante disponível.
- **Utilização da substância / da preparação** Químicos de laboratório
- **1.3 Identificação do fornecedor da ficha de dados de segurança**
- **Fabricante/fornecedor:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: info@emsdiasum.com  
www.emsdiasum.com
- **Entidade para obtenção de informações adicionais:** Product safety department
- **1.4 Número de telefone de emergência:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECÇÃO 2: Identificação dos perigos

- **2.1 Classificação da substância ou mistura**
- **Classificação em conformidade com o Regulamento (CE) n.º 1272/2008**



GHS01 bomba a explodir

Unst. Expl. H200 Explosivo instável.



GHS08 perigo para a saúde

Repr. 1B H360D Pode afectar o nascituro.



GHS07

Eye Irrit. 2 H319 Provoca irritação ocular grave.

Skin Sens. 1 H317 Pode provocar uma reacção alérgica cutânea.

Org. Perox. D H242 Risco de incêndio sob a acção do calor.

- **2.2 Elementos do rótulo**
- **Rotulagem em conformidade com o Regulamento (CE) n.º 1272/2008**  
O produto classificou-se e está etiquetado em conformidade com o regulamento CLP.
- **Pictogramas de perigo**



GHS01



GHS07



GHS08

(continuação na página 2)

# Ficha de dados de segurança

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- **Palavra-sinal Perigo**

- **Componentes determinantes para os perigos constantes do rótulo:**

ftalato de dicitclohexilo

peróxido de dibenzoilo

- **Advertências de perigo**

H200 Explosivo instável.

H242 Risco de incêndio sob a acção do calor.

H319 Provoca irritação ocular grave.

H317 Pode provocar uma reacção alérgica cutânea.

H360D Pode afectar o nascituro.

- **Recomendações de prudência**

P305+P351+P338 **SE ENTRAR EM CONTACTO COM OS OLHOS:** Enxaguar cuidadosamente com água durante vários minutos. Se usar lentes de contacto, retire-as, se tal lhe for possível. Continue a enxaguar.

P373 Se o fogo atingir os explosivos, NÃO tentar combatê-lo.

P380 Evacuar a zona.

P401 Armazenar de acordo com a legislação local/regional/nacional/internacional.

P405 Armazenar em local fechado à chave.

P410 Manter ao abrigo da luz solar.

P501 Eliminar o conteúdo/recipiente de acordo com a legislação local/regional/nacional/internacional.

- **2.3 Outros perigos**

- **Resultados da avaliação PBT e mPmB**

- **PBT:** Não aplicável.

- **mPmB:** Não aplicável.

## SECÇÃO 3: Composição/informação sobre os componentes

- **3.2 Caracterização química: Misturas**

- **Descrição:** Mistura das seguintes substâncias com aditivos não perigosos.

- **Substâncias perigosas:**

CAS: 84-61-7	ftalato de dicitclohexilo	>25-≤50%
EINECS: 201-545-9	⚠ Repr. 1B, H360D; ⚠ Skin Sens. 1, H317	
CAS: 94-36-0	peróxido de dibenzoilo	>25-≤50%
EINECS: 202-327-6	⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	

- **SVHC**

84-61-7 ftalato de dicitclohexilo

- **Avisos adicionais:** O texto das indicações de perigo aqui incluído poderá ser consultado no capítulo 16.

## SECÇÃO 4: Medidas de primeiros socorros

- **4.1 Descrição das medidas de primeiros socorros**

- **Em caso de inalação:**

Assegurar uma boa entrada de oxigénio e, por razões de segurança, procurar auxílio médico.

Se a vítima estiver inconsciente, posicione-a e transporta-la com estabilidade, deitada lateralmente.

- **Em caso de contacto com a pele:** Lavar imediatamente com água e sabão e enxaguar abundantemente.

- **Em caso de contacto com os olhos:**

Enxaguar os olhos durante alguns minutos sob água corrente, mantendo as pálpebras abertas. Em caso de persistência dos sintomas, consultar o médico.

- **Em caso de ingestão:** Se os sintomas persistirem, consultar o médico.

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- **4.2 Sintomas e efeitos mais importantes, tanto agudos como retardados**  
Não existe mais nenhuma informação relevante disponível.
- **4.3 Indicações sobre cuidados médicos urgentes e tratamentos especiais necessários**  
Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 5: Medidas de combate a incêndios

- **5.1 Meios de extinção**
- **Meios adequados de extinção:** Coordenar no local medidas para extinção do fogo.
- **5.2 Perigos especiais decorrentes da substância ou mistura**  
Não existe mais nenhuma informação relevante disponível.
- **5.3 Recomendações para o pessoal de combate a incêndios**
- **Equipamento especial de protecção:** Não são necessárias medidas especiais.

### SECÇÃO 6: Medidas a tomar em caso de fugas accidentais

- **6.1 Precauções individuais, equipamento de protecção e procedimentos de emergência** Não necessário.
- **6.2 Precauções a nível ambiental:** Evitar que penetre na canalização / águas superficiais / águas subterrâneas.
- **6.3 Métodos e materiais de confinamento e limpeza:**  
Eliminar residualmente as substâncias contaminadas como um resíduo segundo o Ponto 13.
- **6.4 Remissão para outras secções**  
Para informações sobre uma manipulação segura, ver o capítulo 7.  
Para informações referentes ao equipamento de protecção individual, ver o capítulo 8.  
Para informações referentes à eliminação residual, ver o capítulo 13.

### SECÇÃO 7: Manuseamento e armazenagem

- **7.1 Precauções para um manuseamento seguro** Abrir e manusear o recipiente com cuidado
- **Precauções para prevenir incêndios e explosões:**  
Proteger do calor.  
Manter uma máscara de respiração sempre preparada.
- **7.2 Condições de armazenagem segura, incluindo eventuais incompatibilidades**
- **Armazenagem:**
- **Requisitos para espaços ou contentores para armazenagem:** Sem requisitos especiais.
- **Avisos para armazenagem conjunta:** Não necessário.
- **Outros avisos sobre as condições de armazenagem:**  
Manter o recipiente hermeticamente fechado.  
Proteger do calor e da radiação directa do sol.
- **7.3 Utilização(ões) final(is) específica(s)** Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 8: Controlo da exposição/Protecção individual

- **8.1 Parâmetros de controlo**
- **Indicações adicionais para concepção de instalações técnicas:** Não existem outras informações, ver ponto 7.

· **Componentes cujo valor do limite de exposição no local de trabalho deve ser monitorizado:**

**94-36-0 peróxido de dibenzoilo**

VLE	Valor para exposição longa: 5 mg/m <sup>3</sup>
	A4; Irritação do TRS e cutânea

- **Indicações adicionais:** Foram utilizadas como base as listas válidas à data da elaboração.

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- **8.2 Controlo da exposição**
- **Equipamento de protecção individual:**
- **Medidas gerais de protecção e higiene:**  
Manter afastado de alimentos, bebidas e forragens.  
Despir imediatamente a roupa contaminada e embebida.  
Lavar as mãos antes das pausas e no fim do trabalho.  
Guardar o vestuário de protecção separadamente.  
Evitar o contacto com os olhos.  
Evitar o contacto com os olhos e com a pele.
- **Protecção respiratória:** Não necessário.
- **Protecção das mãos:**



Luvas de protecção

O material das luvas tem de ser impermeável e resistente ao produto / à substância / preparação.  
Uma vez que não foram realizados testes nesta área, não podemos recomendar um determinado tipo de material para as luvas que seja adequado para o produto / a preparação / a mistura de químicos.  
Escolher o material das luvas tendo em consideração a durabilidade, a permeabilidade e a degradação.

- **Material das luvas**  
A escolha das luvas mais adequadas não depende apenas do material, mas também de outras características qualitativas e varia de fabricante para fabricante. O facto de o produto ser composto por uma variedade de materiais leva a que não seja possível prever a duração dos mesmos e, conseqüentemente, das luvas, sendo assim necessário proceder a uma verificação antes da sua utilização.
- **Tempo de penetração no material das luvas**  
Deve informar-se sobre a validade exacta das suas luvas junto do fabricante e respeitá-la.
- **Protecção dos olhos:**



Óculos de protecção totalmente fechados

## SECÇÃO 9: Propriedades físico-químicas

- **9.1 Informações sobre propriedades físicas e químicas de base**
- **Informações gerais**
- **Aspetto:**
  - Forma:** Pó
  - Cor:** Branco
- **Odor:** Característico
- **Limiar olfactivo:** Não determinado.
- **valor pH:** Não aplicável.
- **Mudança do estado:**
  - Ponto de fusão/ponto de congelação:** Não determinado.
  - Ponto de ebulição inicial e intervalo de ebulição:** Não determinado.
- **Ponto de inflamação:** Não aplicável.
- **Inflamabilidade (sólido, gás):** Pode provocar incêndio.
- **Temperatura de decomposição:** Não determinado.

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· <b>Temperatura de autoignição:</b>	O produto não é auto-inflamável.
· <b>Propriedades explosivas:</b>	Perigo de explosão com ou sem contacto com o ar.
· <b>Limites de explosão:</b> Inferior:	Não determinado.
Superior:	Não determinado.
· <b>Pressão de vapor em 20 °C:</b>	1 hPa
· <b>Densidade em 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Densidade relativa</b>	Não determinado.
· <b>Densidade de vapor</b>	Não aplicável.
· <b>Taxa de evaporação:</b>	Não aplicável.
· <b>Solubilidade em / miscibilidade com água:</b>	Insolúvel.
· <b>Coefficiente de partição: n-octanol/água</b>	Não determinado.
· <b>Viscosidade:</b> Dinâmico:	Não aplicável.
Cinemático:	Não aplicável.
· <b>Percentagem de solvente:</b>	
<b>Percentagem de substâncias sólidas:</b>	100,0 %
· <b>9.2 Outras informações</b>	Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 10: Estabilidade e reactividade

- **10.1 Reactividade** Não existe mais nenhuma informação relevante disponível.
- **10.2 Estabilidade química**
- **Decomposição térmica / condições a evitar:** Não existe decomposição se usado de acordo com as especificações.
- **10.3 Possibilidade de reações perigosas** Não se conhecem reações perigosas.
- **10.4 Condições a evitar** Não existe mais nenhuma informação relevante disponível.
- **10.5 Materiais incompatíveis:** Não existe mais nenhuma informação relevante disponível.
- **10.6 Produtos de decomposição perigosos:** Não se conhecem produtos de decomposição perigosos.

### SECÇÃO 11: Informação toxicológica

- **11.1 Informações sobre os efeitos toxicológicos**
- **Toxicidade aguda** Com base nos dados disponíveis, os critérios de classificação não são preenchidos.
- **Efeito de irritabilidade primário:**
- **Corrosão/irritação cutânea** Com base nos dados disponíveis, os critérios de classificação não são preenchidos.
- **Lesões oculares graves/irritação ocular**  
Provoca irritação ocular grave.
- **Sensibilização respiratória ou cutânea**  
Pode provocar uma reacção alérgica cutânea.
- **Avisos adicionais de toxicologia:**
- **Efeitos CMR (carcinogenicidade, mutagenicidade e efeitos tóxicos na reprodução)**
- **Mutagenicidade em células germinativas**  
Com base nos dados disponíveis, os critérios de classificação não são preenchidos.
- **Carcinogenicidade** Com base nos dados disponíveis, os critérios de classificação não são preenchidos.

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- **Toxicidade reprodutiva**  
Pode afectar o nascituro.
- **Toxicidade para órgãos-alvo específicos (STOT) - exposição única**  
Com base nos dados disponíveis, os critérios de classificação não são preenchidos.
- **Toxicidade para órgãos-alvo específicos (STOT) - exposição repetida**  
Com base nos dados disponíveis, os critérios de classificação não são preenchidos.
- **Perigo de aspiração** Com base nos dados disponíveis, os critérios de classificação não são preenchidos.


### SECÇÃO 12: Informação ecológica

- **12.1 Toxicidade**
- **Toxicidade aquática:** Não existe mais nenhuma informação relevante disponível.
- **12.2 Persistência e degradabilidade** Não existe mais nenhuma informação relevante disponível.
- **12.3 Potencial de bioacumulação** Não existe mais nenhuma informação relevante disponível.
- **12.4 Mobilidade no solo** Não existe mais nenhuma informação relevante disponível.
- **Outras indicações ecológicas:**
- **Indicações gerais:**  
Classe de perigo para a água 1 (D) (auto-classificação): pouco perigoso para a água  
Não deixar chegar substâncias concentradas, ou seja quantidades grandes, às águas subterrâneas, aos cursos de água ou à canalização.
- **12.5 Resultados da avaliação PBT e mPmB**
- **PBT:** Não aplicável.
- **mPmB:** Não aplicável.
- **12.6 Outros efeitos adversos** Não existe mais nenhuma informação relevante disponível.

### SECÇÃO 13: Considerações relativas à eliminação

- **13.1 Métodos de tratamento de resíduos**
- **Recomendação:** Não se pode eliminar juntamente com o lixo doméstico. Não permita que chegue à canalização.
- **Embalagens contaminadas:**
- **Recomendação:** Eliminação residual conforme o regulamento dos serviços públicos.

### SECÇÃO 14: Informações relativas ao transporte

- |   |  |
|---|--|
| · <b>14.1 Número ONU</b>  |  |
| · <b>ADR, IMDG, IATA</b>  | UN3106   |
| · <b>14.2 Designação oficial de transporte da ONU</b>                               |  |
| · <b>ADR</b>  | 3106 PERÓXIDO ORGÂNICO DE TIPO D, SÓLIDO         |
| · <b>IMDG</b>   | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| · <b>IATA</b>   | ORGANIC PEROXIDE TYPE D, SOLID                   |
| · <b>14.3 Classes de perigo para efeitos de transporte</b>                          |  |
| · <b>ADR, IATA</b>  |  |
|  |  |
| · <b>Classe</b>   | 5.2 Peróxidos orgânicos                          |

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· <b>Rótulo</b>	5.2
· <b>IMDG</b>	
	
· <b>Class</b>	5.2 Peróxidos orgânicos
· <b>Label</b>	5.2
· <b>14.4 Grupo de embalagem</b>	
· <b>ADR, IMDG, IATA</b>	não aplicável
· <b>14.5 Perigos para o ambiente:</b>	
· <b>Poluente das águas:</b>	Símbolo convencional (peixes e árvore)
· <b>14.6 Precauções especiais para o utilizador</b>	Atenção: Peróxidos orgânicos
· <b>Número de identificação de perigo (Nº Kemler):</b>	90
· <b>Nº EMS:</b>	F-J,S-R
· <b>Stowage Category</b>	D
· <b>Stowage Code</b>	SW1 Protected from sources of heat.
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>14.7 Transporte a granel em conformidade com o anexo II da Convenção MARPOL e o Código IBC</b>	Não aplicável.
· <b>Transporte/outras informações:</b>	
· <b>ADR</b>	
· <b>Quantidades Limitadas (LQ)</b>	500 g
· <b>Quantidades exceptuadas (EQ)</b>	Código: E0 Não admissível como quantidade exceptuada
· <b>Categoria de transporte</b>	2
· <b>Código de restrição em túneis</b>	D
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 PERÓXIDO ORGÂNICO DE TIPO D, SÓLIDO, 5.2

### SECÇÃO 15: Informação sobre regulamentação

- **15.1 Regulamentação/legislação específica para a substância ou mistura em matéria de saúde, segurança e ambiente**
- **Diretiva 2012/18/UE**
- **Substâncias perigosas designadas - ANEXO I Nenhum dos componentes se encontra listado.**
- **Categoria "Seveso" P1a EXPLOSIVOS**
- **Quantidades-limiar (em toneladas), para a aplicação de requisitos de nível inferior 10 t**
- **Quantidades-limiar (em toneladas), para a aplicação de requisitos de nível superior 50 t**

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· **Regulamento (CE) n.º 1907/2006 ANEXO XVII Condições de limitação: 30**· **Directiva 2011/65/UE relativa à restrição do uso de determinadas substâncias perigosas em equipamentos eléctricos e electrónicos - Anexo II**

Nenhum dos componentes se encontra listado.

· **REGULAMENTO (UE) 2019/1148**· **Anexo I - PRECURSORES DE EXPLOSIVOS OBJETO DE RESTRIÇÕES (Valor-limite máximo para efeitos de licenciamento nos termos do artigo 5.o, n.o 3)**

Nenhum dos componentes se encontra listado.

· **Anexo II - PRECURSORES DE EXPLOSIVOS PASSÍVEIS DE PARTICIPAÇÃO**

Nenhum dos componentes se encontra listado.

· **Regulamento (CE) n.º 273/2004 relativo aos precursores de drogas**

Nenhum dos componentes se encontra listado.

· **Regulamento (CE) n.º 111/2005 que estabelece regras de controlo do comércio de precursores de drogas entre a Comunidade e países terceiros**

Nenhum dos componentes se encontra listado.

· **Disposições nacionais:**· **outros regulamentos, restrições e decretos que proibem**· **Substâncias que suscitam elevada preocupação (SVHC) em conformidade com REACH, artigo 57**

84-61-7 ftalato de diciclohexilo

· **15.2 Avaliação da segurança química: Não foi realizada nenhuma Avaliação de Segurança Química.**

## SECÇÃO 16: Outras informações

As informações fornecidas baseiam-se no estado actual dos nossos conhecimentos, embora não representem uma garantia das propriedades do produto e não fundamentam uma relação contratual.

· **Frases relevantes**

H241 Risco de explosão ou de incêndio sob a acção do calor.

H317 Pode provocar uma reacção alérgica cutânea.

H319 Provoca irritação ocular grave.

H360D Pode afectar o nascituro.

· **Abreviaturas e acrónimos:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Explosivos – Explosivo instável

Org. Perox. B: Peróxidos orgânicos – Tipo B

Org. Perox. D: Peróxidos orgânicos – Tipo C/D

Eye Irrit. 2: Lesões oculares graves/irritação ocular – Categoria 2

Skin Sens. 1: Sensibilização cutânea – Categoria 1

Repr. 1B: Toxicidade reprodutiva – Categoria 1B

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 20.01.2022

Revisión: 20.01.2022

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** TECHNOVIT 7100 - HARDENER 1

· **Número del artículo:** 14653(H1)

· **UFI:** T050-H0T2-T008-6UE4

· **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

· **1.3 Datos del proveedor de la ficha de datos de seguridad**

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

· **1.4 Teléfono de emergencia:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

· **2.1 Clasificación de la sustancia o de la mezcla**

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS01 bomba explotando

Unst. Expl. H200 Explosivo inestable.



GHS08 peligro para la salud

Repr. 1B H360D Puede dañar al feto.



GHS07

Eye Irrit. 2 H319 Provoca irritación ocular grave.

Skin Sens. 1 H317 Puede provocar una reacción alérgica en la piel.

Org. Perox. D H242 Peligro de incendio en caso de calentamiento.

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**Ficha de datos de seguridad**  
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- **2.2 Elementos de la etiqueta**
- **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**  
El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.
- **Pictogramas de peligro**



GHS01 GHS07 GHS08

- **Palabra de advertencia Peligro**
- **Componentes peligrosos a indicar en el etiquetaje:**  
ftalato de dicitclohexilo  
peróxido de dibenzoilo
- **Indicaciones de peligro**  
H200 Explosivo inestable.  
H242 Peligro de incendio en caso de calentamiento.  
H319 Provoca irritación ocular grave.  
H317 Puede provocar una reacción alérgica en la piel.  
H360D Puede dañar al feto.
- **Consejos de prudencia**  
P305+P351+P338 **EN CASO DE CONTACTO CON LOS OJOS:** Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.  
P373 **NO** luchar contra el incendio cuando el fuego llega a los explosivos.  
P380 Evacuar la zona.  
P401 Almacenar conforme a la reglamentación local/regional/nacional/internacional.  
P405 Guardar bajo llave.  
P410 Proteger de la luz del sol.  
P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
- **2.3 Otros peligros**
- **Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.

**SECCIÓN 3: Composición/información sobre los componentes**

- **3.2 Caracterización química: Mezclas**
- **Descripción:** Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas.

· **Componentes peligrosos:**

CAS: 84-61-7 EINECS: 201-545-9	ftalato de dicitclohexilo ⚠ Repr. 1B, H360D; ⚠ Skin Sens. 1, H317	>25- ≤50%
CAS: 94-36-0 EINECS: 202-327-6	peróxido de dibenzoilo ⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	>25- ≤50%

· **SVHC**

84-61-7	ftalato de dicitclohexilo
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- **Indicaciones adicionales:** El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

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### SECCIÓN 4: Primeros auxilios

- **4.1 Descripción de los primeros auxilios**
- **En caso de inhalación del producto:**  
Suministrar suficiente aire fresco y, para mayor seguridad, consultar el médico.  
Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
- **En caso de contacto con la piel:** Lavar inmediatamente con agua y jabón y enjuagar bien.
- **En caso de con los ojos:**  
Limpiar los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar un médico.
- **En caso de ingestión:** Consultar un médico si los trastornos persisten.
- **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.
- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**  
No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.
- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** No se requieren medidas especiales.

### SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.
- **6.2 Precauciones relativas al medio ambiente:**  
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**  
Desechar el material contaminado como vertido según ítem 13.
- **6.4 Referencia a otras secciones**  
Ver capítulo 7 para mayor información sobre una manipulación segura.  
Ver capítulo 8 para mayor información sobre el equipo personal de protección.  
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura** Abrir y manejar el recipiente con cuidado.
- **Prevención de incendios y explosiones:**  
Proteger del calor.  
Tener preparados los aparatos respiratorios.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**  
Mantener el recipiente cerrado herméticamente.  
Proteger del calor y de la luz directa del sol.

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· **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

### SECCIÓN 8: Controles de exposición/protección individual

· **8.1 Parámetros de control**

· **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**  
Sin datos adicionales, ver punto 7.

· **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:****94-36-0 peróxido de dibenzoilo**

LEP	Valor de larga duración: 5 mg/m <sup>3</sup>
	Sen

· **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.· **8.2 Controles de la exposición**· **Equipo de protección individual:**· **Medidas generales de protección e higiene:**

Mantener alejado de alimentos, bebidas y alimentos para animales.

Quitarse de inmediato la ropa ensuciada o impregnada.

Lavarse las manos antes de las pausas y al final del trabajo.

Guardar la ropa protectora por separado.

Evitar el contacto con los ojos.

Evitar el contacto con los ojos y la piel.

· **Protección respiratoria:** No es necesario.· **Protección de manos:**

Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser evaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· **Protección de ojos:**

Gafas de protección herméticas

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### SECCIÓN 9: Propiedades físicas y químicas

#### · 9.1 Información sobre propiedades físicas y químicas básicas

##### · Datos generales

##### · Aspecto:

Forma: En polvo

Color: Blanco

· Olor: Característico

· Umbral olfativo: No determinado.

· valor pH: No aplicable.

##### · Cambio de estado

Punto de fusión/punto de congelación: Indeterminado.

Punto inicial de ebullición e intervalo de ebullición: Indeterminado.

· Punto de inflamación: No aplicable.

· Inflamabilidad (sólido, gas): Puede provocar incendios.

· Temperatura de descomposición: No determinado.

· Temperatura de auto-inflamación: El producto no es autoinflamable.

· Propiedades explosivas: Peligro de explosión, en contacto o sin contacto con el aire.

##### · Límites de explosión:

Inferior: No determinado.

Superior: No determinado.

· Presión de vapor a 20 °C: 1 hPa

· Densidad a 20 °C: 1,24 g/cm<sup>3</sup>

· Densidad relativa: No determinado.

· Densidad de vapor: No aplicable.

· Tasa de evaporación: No aplicable.

· Solubilidad en / miscibilidad con agua:

Insoluble.

· Coeficiente de reparto: n-octanol/agua: No determinado.

##### · Viscosidad:

Dinámica: No aplicable.

Cinemática: No aplicable.

##### · Concentración del disolvente:

Contenido de cuerpos sólidos: 100,0 %

· 9.2 Otros datos: No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

· 10.1 Reactividad: No existen más datos relevantes disponibles.

#### · 10.2 Estabilidad química

· Descomposición térmica / condiciones que deben evitarse: No se descompone al emplearse adecuadamente.

· 10.3 Posibilidad de reacciones peligrosas: No se conocen reacciones peligrosas.

· 10.4 Condiciones que deben evitarse: No existen más datos relevantes disponibles.

· 10.5 Materiales incompatibles: No existen más datos relevantes disponibles.

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· **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Lesiones o irritación ocular graves**  
Provoca irritación ocular grave.
- **Sensibilización respiratoria o cutánea**  
Puede provocar una reacción alérgica en la piel.
- **Indicaciones toxicológicas adicionales:**
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Carcinogenicidad** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad para la reproducción**  
Puede dañar al feto.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
Nivel de riesgo para el agua 1 (autoclasiificación): escasamente peligroso para el agua  
En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.

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## SECCIÓN 14: Información relativa al transporte

· 14.1 Número ONU · ADR, IMDG, IATA	UN3106
· 14.2 Designación oficial de transporte de las Naciones Unidas · ADR · IMDG · IATA	3106 PERÓXIDO ORGÁNICO SÓLIDO TIPO D ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, SOLID
· 14.3 Clase(s) de peligro para el transporte · ADR, IATA	
	
· Clase · Etiqueta	5.2 Peróxidos orgánicos 5.2
· IMDG	
	
· Class · Label	5.2 Peróxidos orgánicos 5.2
· 14.4 Grupo de embalaje · ADR, IMDG, IATA	suprimido
· 14.5 Peligros para el medio ambiente: · Contaminante marino:	Símbolo (pez y árbol)
· 14.6 Precauciones particulares para los usuarios · Número de identificación de peligro (Número Kemler): · Número EMS: · Stowage Category · Stowage Code · Segregation Code	Atención: Peróxidos orgánicos 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC	No aplicable.
· Transporte/datos adicionales:	
· ADR · Cantidades limitadas (LQ) · Cantidades exceptuadas (EQ)	500 g Código: E0 No se permite como cantidad exceptuada
· Categoría de transporte · Código de restricción del túnel	2 D

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· <b>"Reglamentación Modelo" de la UNECE:</b>	UN 3106 PERÓXIDO ORGÁNICO SÓLIDO TIPO D, 5.2

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** ninguno de los componentes está incluido en una lista
- **Categoría Seveso P1a EXPLOSIVOS**
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 10 t**
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 50 t**
- **REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones: 30**

- **Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II**

ninguno de los componentes está incluido en una lista

- **REGLAMENTO (UE) 2019/1148**

- **Anexo I - PRECURSORES DE EXPLOSIVOS RESTRINGIDOS (Valor límite superior a efectos de la concesión de licencias con arreglo al artículo 5, apartado 3)**

ninguno de los componentes está incluido en una lista

- **Anexo II - PRECURSORES DE EXPLOSIVOS NOTIFICABLES**

ninguno de los componentes está incluido en una lista

- **Reglamento (CE) no 273/2004 sobre precursores de drogas**

ninguno de los componentes está incluido en una lista

- **Reglamento (CE) N o 111/2005 por el que establecen normas para la vigilancia del comercio de precursores de drogas entre la Comunidad y terceros países**

ninguno de los componentes está incluido en una lista

- **Disposiciones nacionales:**

- **Demás disposiciones, limitaciones y decretos prohibitivos**

- **Sustancias altamente preocupantes (SVHC) según REACH, artículo 57**

84-61-7 ftalato de diciclohexilo

- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- **Frases relevantes**

H241 Peligro de incendio o explosión en caso de calentamiento.

H317 Puede provocar una reacción alérgica en la piel.

H319 Provoca irritación ocular grave.

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*H360D Puede dañar al feto.***· Abreviaturas y acrónimos:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Unst. Expl.: Explosivos – Explosivo inestable**Org. Perox. B: Peróxidos orgánicos – Tipo B**Org. Perox. D: Peróxidos orgánicos – Tipo C/D**Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2**Skin Sens. 1: Sensibilización cutánea – Categoría 1**Repr. 1B: Toxicidad para la reproducción – Categoría 1B*

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# Säkerhetsdatablad

## enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 20.01.2022

Omarbetad: 20.01.2022

### AVSNITT 1: Namnet på ämnet/blandningen och bolaget/företaget

- **1.1 Produktbeteckning**
- **Handelsnamn: TECHNOVIT 7100 - HARDENER 1**
- **Artikelnummer: 14653(H1)**
- **UFI: T050-H0T2-T008-6UE4**
- **1.2 Relevanta identifierade användningar av ämnet eller blandningen och användningar som det avråds från**  
Ingen ytterligare relevant information finns till förfogande.
- **Ämnets användning / tillredningen** Laboratoriekemikalier
- **1.3 Närmare upplysningar om den som tillhandahåller säkerhetsdatablad**
- **Tillverkare/leverantör:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Område där upplysningar kan inhämtas:** Product safety department
- **1.4 Telefonnummer för nödsituationer:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### AVSNITT 2: Farliga egenskaper

- **2.1 Klassificering av ämnet eller blandningen**
- **Klassificering enligt förordning (EG) nr 1272/2008**



GHS01 exploderande bomb

Unst. Expl. H200 Instabilt explosivt.



GHS08 hälsofara

Repr. 1B H360D Kan skada det ofödda barnet.



GHS07

Eye Irrit. 2 H319 Orsakar allvarlig ögonirritation.

Skin Sens. 1 H317 Kan orsaka allergisk hudreaktion.

Org. Perox. D H242 Brandfarligt vid uppvärmning.

- **2.2 Märkningsuppgifter**
- **Märkning enligt förordning (EG) nr 1272/2008** Produkten är klassificerad och märkt enligt CLP-förordningen.
- **Faropiktogram**



GHS01



GHS07



GHS08

(Fortsättning på sida 2)



# Säkerhetsdatablad

## enligt förordning (EG) nr. 1907/2006, Artikel 31

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Omarbetad: 20.01.2022

**Handelsnamn: TECHNOVIT 7100 - HARDENER 1**

(Fortsättning från sida 1)

- **Signalord Fara**

- **Riskbestämmande komponenter för etikettering:**

dicyklohexylftalat

dibenzoylperoxid

- **Faroangivelser**

H200 Instabilt explosivt.

H242 Brandfarligt vid uppvärmning.

H319 Orsakar allvarlig ögonirritation.

H317 Kan orsaka allergisk hudreaktion.

H360D Kan skada det ofödda barnet.

- **Skyddsangivelser**

P305+P351+P338 VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt att skölja.

P373 Försök INTE bekämpa branden när den når explosiva varor.

P380 Utrym området.

P401 Förvaras enligt lokala/regionala/nationella/internationella föreskrifter.

P405 Förvaras inlåst.

P410 Skyddas från solljus.

P501 Innehållet / behållaren avfallshanteras enligt lokala / regionala / nationella / internationella föreskrifter.

- **2.3 Andra faror**

- **Resultat av PBT- och vPvB-bedömningen**

- **PBT:** Ej användbar.

- **vPvB:** Ej användbar.

### AVSNITT 3: Sammansättning/information om beståndsdelar

- **3.2 Kemisk karakterisering: Blandningar**

- **Beskrivning:** Blandning bestående av nedan upplistade ämnen med ofarliga tillsatser.

- **Farliga ingredienser:**

CAS: 84-61-7	dicyklohexylftalat	>25-≤50%
EINECS: 201-545-9	⚠ Repr. 1B, H360D; ⚠ Skin Sens. 1, H317	
CAS: 94-36-0	dibenzoylperoxid	>25-≤50%
EINECS: 202-327-6	⚠ Org. Perox. B, H241; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317	

- **SVHC**

84-61-7	dicyklohexylftalat
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- **Ytterligare hänvisningar:** De angivna farohänvisningarnas ordalydelse framgår av kapitel 16.

### AVSNITT 4: Åtgärder vid första hjälpen

- **4.1 Beskrivning av åtgärder vid första hjälpen**

- **Vid inandning:**

Riklig tillförsel av friskluft, kontakta läkare för säkerhets skull.

Vid medvetslöshet lägg och transportera patient stabilt i framstupa sidoläge.

- **Vid kontakt med huden:** Tvätta omedelbart med vatten och tvål och spola därefter noggrant.

- **Vid kontakt med ögonen:**

Spola ögonen öppna i flera minuter under rinnande vatten. Om besvär kvarstår, kontakta läkare.

- **Vid förtäring:** Om besvär kvarstår, kontakta läkare.

- **4.2 De viktigaste symptomen och effekterna, både akuta och fördröjda**

Ingen ytterligare relevant information finns till förfogande.

(Fortsättning på sida 3)

# Säkerhetsdatablad

## enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 20.01.2022

Omarbetad: 20.01.2022

**Handelsnamn: TECHNOVIT 7100 - HARDENER 1**

(Fortsättning från sida 2)

- **4.3 Angivande av omedelbar medicinsk behandling och särskild behandling som eventuellt krävs**  
Ingen ytterligare relevant information finns till förfogande.

### AVSNITT 5: Brandbekämpningsåtgärder

- **5.1 Släckmedel**
- **Lämpliga släckningsmedel:** Anpassa brandbekämpningsåtgärderna till omgivningen.
- **5.2 Särskilda faror som ämnet eller blandningen kan medföra**  
Ingen ytterligare relevant information finns till förfogande.
- **5.3 Råd till brandbekämpningspersonal**
- **Speciell skyddsutrustning:** Inga speciella åtgärder krävs.

### AVSNITT 6: Åtgärder vid oavsiktliga utsläpp

- **6.1 Personliga skyddsåtgärder, skyddsutrustning och åtgärder vid nödsituationer** Erfordras ej.
- **6.2 Miljöskyddsåtgärder:** Förhindra produkten att tränga ner i avlopps nät/ytvatten/grundvatten.
- **6.3 Metoder och material för inneslutning och sanering:**  
Omhändertar förorenat material som avfall enligt punkt 13.
- **6.4 Hänvisning till andra avsnitt**  
Information beträffande säker hantering se kapitel 7.  
Information beträffande personlig skyddsutrustning se kapitel 8.  
Information beträffande avfallshantering se kapitel 13.

### AVSNITT 7: Hantering och lagring

- **7.1 Försiktighetsmått för säker hantering** Öppna behållaren försiktigt och hantera den varsamt.
- **Hänvisningar beträffande brand- och explosionsskydd:**  
Skyddas mot värme.  
Håll andningsskyddsutrustning i beredskap.
- **7.2 Förhållanden för säker lagring, inklusive eventuell oförenlighet**
- **Lagring:**
- **Krav på lagerutrymmen och behållare:** Inga speciella krav.
- **Hänvisningar beträffande sammanlagring:** Erfordras ej.
- **Ytterligare uppgifter till lagringsvillkoren:**  
Förvara behållaren tätt tillsluten.  
Skyddas mot värme och direkt solljus.
- **7.3 Specifik slutanvändning** Ingen ytterligare relevant information finns till förfogande.

### AVSNITT 8: Begränsning av exponeringen/personligt skydd

- **8.1 Kontrollparametrar**
- **Ytterligare hänvisningar beträffande utformning av tekniska anläggningar:** Inga övriga uppgifter, se punkt 7.
- **Ämnen med yrkeshygieniska gränsvärden som bör övervakas:**  
Produkten innehåller inga relevanta mängder av ämnen med arbetsplatsrelaterade gränsvärden som skall övervakas.
- **Ytterligare hänvisningar:** De vid framställningen gällande listorna har använts som utgångspunkt.
- **8.2 Begränsning av exponeringen**
- **Personlig skyddsutrustning:**
- **Allmänna skydds- och hygienåtgärder:**  
Undvik kontakt med livsmedel, drycker och fodermedel.

(Fortsättning på sida 4)

# Säkerhetsdatablad

## enligt förordning (EG) nr. 1907/2006, Artikel 31

Datum för utskrift: 20.01.2022

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(Fortsättning från sida 3)

Nedsmutsade, indränkta klädesplagg skall omedelbart tas av.

Tvätta händerna före raster och efter arbetet.

Skyddsdräkter förvaras separat.

Undvik kontakt med ögonen.

Undvik kontakt med ögonen och huden.

· **Andningsskydd:** Erfordras ej.

· **Handskydd:**



Skyddshandskar

Handskmaterialet måste vara tätt och beständigt mot produkt/ämne/tillredning.

Handskmaterialrekommendationer kan inte ges för produkt/tillredning/kemikalielösning, då inga tester genomförts.

Val av handskmaterial beaktande penetrationstider, permeationskvoter och degradation.

· **Handskmaterial**

Val av lämplig handske är inte enbart beroende av material utan även av andra kvalitetskriterier och varierar från en tillverkare till nästa. Då produkten bereds av flera material, kan handskmaterialets beständighet inte förutses och måste därför kontrolleras före användningen.

· **Handskmaterialets penetreringstid**

Exakt penetrationstid fastställs av skyddshandskarnas tillverkare och skall beaktas.

· **Ögonskydd:**



Tättslutande skyddsglasögon

### AVSNITT 9: Fysikaliska och kemiska egenskaper

· **9.1 Information om grundläggande fysikaliska och kemiska egenskaper**

· **Allmänna uppgifter**

· **Utseende:**

**Form:** Pulver

**Färg:** Vit

· **Lukt:** Karakteristisk

· **Luktröskel:** Ej bestämd.

· **pH-värde:** Ej användbar.

· **Tillståndsändring**

**Smältpunkt/frys punkt:** Ej bestämd.

**Initial kokpunkt och kokpunktsintervall:** Ej bestämd.

· **Flampunkt:** Ej användbar.

· **Brandfarlighet (fast form, gas):** Kan orsaka brand.

· **Sönderfallstemperatur:** Ej bestämd.

· **Självantändningstemperatur:** Produkten är ej självantändande.

· **Explosiva egenskaper:** Explosivt vid kontakt och utan kontakt med luft.

· **Explosionsgränser:**

**Nedre:** Ej bestämd.

(Fortsättning på sida 5)

**Säkerhetsdatablad**  
enligt förordning (EG) nr. 1907/2006, Artikel 31

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(Fortsättning från sida 4)

<b>Övre:</b>	Ej bestämd.
· <b>Ångtryck vid 20 °C:</b>	1 hPa
· <b>Densitet vid 20 °C:</b>	1,24 g/cm <sup>3</sup>
· <b>Relativ densitet</b>	Ej bestämd.
· <b>Ångdensitet</b>	Ej användbar.
· <b>Avdunstningshastighet:</b>	Ej användbar.
· <b>Löslighet i / blandbarhet med Vatten:</b>	Olöslig.
· <b>Fördelningskoefficient: n-oktanol/vatten:</b>	Ej bestämd.
· <b>Viskositet:</b>	
<b>Dynamisk:</b>	Ej användbar.
<b>Kinematisk:</b>	Ej användbar.
· <b>Lösningsmedelhalt:</b>	
<b>Andel av fasta partiklar:</b>	100,0 %
· <b>9.2 Annan information</b>	Ingen ytterligare relevant information finns till förfogande.

### AVSNITT 10: Stabilitet och reaktivitet

- **10.1 Reaktivitet** Ingen ytterligare relevant information finns till förfogande.
- **10.2 Kemisk stabilitet**
- **Termisk sönderdelning / förhållanden som bör undvikas:** Inget sönderfall vid ändamålsenlig användning.
- **10.3 Risken för farliga reaktioner** Inga farliga reaktioner kända.
- **10.4 Förhållanden som ska undvikas** Ingen ytterligare relevant information finns till förfogande.
- **10.5 Oförenliga material:** Ingen ytterligare relevant information finns till förfogande.
- **10.6 Farliga sönderdelningsprodukter:** Inga farliga sönderfallsprodukter kända.

### AVSNITT 11: Toxikologisk information

- **11.1 Information om de toxikologiska effekterna**
- **Akut toxicitet** Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- **Primär retningseffekt:**
- **Frätande/irriterande på huden**  
Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- **Allvarlig ögonskada/ögonirritation**  
Orsakar allvarlig ögonirritation.
- **Luftvägs-/hudsensibilisering**  
Kan orsaka allergisk hudreaktion.
- **Ytterligare toxikologiska hänvisningar:**
- **CMR-effekter (cancerframkallande, mutagen och reproduktionstoxiska egenskaper)**
- **Mutagenitet i könsceller**  
Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- **Cancerogenitet** Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- **Reproduktionstoxicitet**  
Kan skada det ofödda barnet.
- **Specifik organtoxicitet – enstaka exponering**  
Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

(Fortsättning på sida 6)

# Säkerhetsdatablad

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(Fortsättning från sida 5)

- **Specifik organtocitet – upprepad exponering**  
Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.
- **Fara vid aspiration** Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

### AVSNITT 12: Ekologisk information

- **12.1 Toxicitet**
- **Akvatisk toxicitet:** Ingen ytterligare relevant information finns till förfogande.
- **12.2 Persistens och nedbrytbarhet** Ingen ytterligare relevant information finns till förfogande.
- **12.3 Bioackumuleringsförmåga** Ingen ytterligare relevant information finns till förfogande.
- **12.4 Rörlighet i jord** Ingen ytterligare relevant information finns till förfogande.
- **Ytterligare ekologiska hänvisningar:**
- **Allmänna hänvisningar:**  
Vattenföroreningsklass 1 (Självtvärdering): liten risk för vattenförorening.  
Låt ej tränga ner i grundvatten, vattendrag eller i avloppsnätet i outspätt tillstånd resp. i större mängder.
- **12.5 Resultat av PBT- och vPvB-bedömningen**
- **PBT:** Ej användbar.
- **vPvB:** Ej användbar.
- **12.6 Andra skadliga effekter** Ingen ytterligare relevant information finns till förfogande.

### AVSNITT 13: Avfallshantering

- **13.1 Avfallsbehandlingsmetoder**
- **Rekommendation:** Får inte deponeras ihop med hushållsavfall. Får inte tömmas i avloppsnätet.
- **Ej rengjorda förpackningar:**
- **Rekommendation:** Avfallshanteras enligt myndigheters föreskrifter.

### AVSNITT 14: Transportinformation

- |  |  |
|--|--|
| <b>14.1 UN-nummer</b>                    |  |
| <b>ADR, IMDG, IATA</b>                   | UN3106   |
| <b>14.2 Officiell transportbenämning</b> |  |
| <b>ADR</b>                               | 3106 ORGANISK PEROXID TYP D, FAST                |
| <b>IMDG</b>                              | ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT |
| <b>IATA</b>                              | ORGANIC PEROXIDE TYPE D, SOLID                   |
| <b>14.3 Faroklass för transport</b>      |  |
| <b>ADR, IATA</b>                         |  |
|  |  |
| <b>Klass</b>                             | 5.2 Organiska peroxider                          |

(Fortsättning på sida 7)

# Säkerhetsdatablad


## enligt förordning (EG) nr. 1907/2006, Artikel 31

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**Handelsnamn: TECHNOVIT 7100 - HARDENER 1**

(Fortsättning från sida 6)

· <b>Etikett</b>	5.2
· <b>IMDG</b>	
	
· <b>Class</b>	5.2 Organiska peroxider
· <b>Label</b>	5.2
· <b>14.4 Förpackningsgrupp</b> · <b>ADR, IMDG, IATA</b>	Utgår
· <b>14.5 Miljöfaror:</b> · <b>Marine pollutant:</b>	Symbol (fisk och träd)
· <b>14.6 Särskilda skyddsåtgärder</b> · <b>Farlighetsnummer (Kemler-tal):</b> · <b>EMS-nummer:</b> · <b>Stowage Category</b> · <b>Stowage Code</b> · <b>Segregation Code</b>	Varning: Organiska peroxider 90 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>14.7 Bulktransport enligt bilaga II till Marpol 73/78 och IBC-koden</b>	Ej användbar.
· <b>Transport / ytterligare uppgifter:</b>	
· <b>ADR</b> · <b>Begränsade mängder (LQ)</b> · <b>Reducerade mängder (EQ)</b>	500 g Kod: E0 Ej tillåten i reducerade mängder
· <b>Transportkategori</b> · <b>Tunnelrestriktionskod</b>	2 D
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· <b>UN "Model Regulation":</b>	UN 3106 ORGANISK PEROXID TYP D, FAST, 5.2

### AVSNITT 15: Gällande föreskrifter

- **15.1 Föreskrifter/lagstiftning om ämnet eller blandningen när det gäller säkerhet, hälsa och miljö**
- **Direktiv 2012/18/EU**
- **Namngivna farliga ämnen - BILAGA I** Inga beståndsdelar är listade.
- **Seveso-kategorier P1a EXPLOSIVA ÄMNEN, BLANDNINGAR OCH FÖREMÅL**
- **Tröskelvärden (i ton) för tillämpning av krav för lägre nivå 10 t**
- **Tröskelvärden (i ton) för tillämpning av krav för övre nivå 50 t**
- **Förordning (EG) nr 1907/2006 BILAGA XVII Villkor: 30**

(Fortsättning på sida 8)

SE

**Säkerhetsdatablad**  
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Omarbetad: 20.01.2022

**Handelsnamn: TECHNOVIT 7100 - HARDENER 1**

(Fortsättning från sida 7)

· **Direktiv 2011/65/EU om begränsning av användning av vissa farliga ämnen i elektrisk och elektronisk utrustning - Bilaga II**

Inga beståndsdelar är listade.

· **FÖRORDNING (EU) 2019/1148**

· **Bilaga I - SPRÄNGÄMNESPREKURSORER SOM OMFATTAS AV RESTRIKTIONER (Övre gränsvärde för beviljande av tillstånd enligt artikel 5.3)**

Inga beståndsdelar är listade.

· **Bilaga II - SPRÄNGÄMNESPREKURSORER SOM OMFATTAS AV RAPPORTERINGSKRAV**

Inga beståndsdelar är listade.

· **Förordning (EG) nr 273/2004 om narkotikaprekursorer**

Inga beståndsdelar är listade.

· **Förordning (EG) nr 111/2005 om regler för övervakning av handeln med narkotikaprekursorer mellan gemenskapen och tredjeländer**

Inga beståndsdelar är listade.

· **Nationella föreskrifter:**· **Övriga föreskrifter, begränsningar och förbudsbestämmelser**· **Ämnen som inger mycket stora betänkligheter (SVHC) enligt REACH, artikel 57**

84-61-7 dicyklohexylftalat

· **15.2 Kemikaliesäkerhetsbedömning:** En kemikaliesäkerhetsbedömning har ej gjorts.

### AVSNITT 16: Annan information

Uppgifterna är baserade på våra aktuella kunskaper. De representerar emellertid ingen som helst garanti beträffande produkttegenskaper och utgör ingen grund för ett avtalat rättsförhållande.

· **Relevanta fraser**

H241 Brandfarligt eller explosivt vid uppvärmning.

H317 Kan orsaka allergisk hudreaktion.

H319 Orsakar allvarlig ögonirritation.

H360D Kan skada det ofödda barnet.

· **Förkortningar och akronymer:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Unst. Expl.: Explosiva ämnen, blandningar och föremål – Instabilt explosivt ämne, blandning eller föremål

Org. Perox. B: Organiska peroxider – Typ B

Org. Perox. D: Organiska peroxider – Typ C/D

Eye Irrit. 2: Allvarlig ögonskada eller ögonirritation – Kategori 2

Skin Sens. 1: Hudsensibilisering – Kategori 1

Repr. 1B: Reproduktionstoxicitet – Kategori 1B