

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/26/2022

Reviewed on 01/26/2022

## 1 Identification

- **Product identifier**
- **Trade name:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Article number:** 12643
- **CAS Number:**  
107-98-2
- **EC number:**  
203-539-1
- **Index number:**  
603-064-00-3
- **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**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

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

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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

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· **Hazard pictograms**

GHS02   GHS06   GHS07   GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:***1-methoxy-2-propanol**2-methoxypropanol*· **Hazard statements***Flammable liquid and vapor.**Toxic if inhaled.**Causes serious eye irritation.**May damage fertility or the unborn child.**May cause drowsiness or dizziness.*· **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.**Ground/bond container and receiving equipment.**Use explosion-proof electrical/ventilating/lighting/equipment.**Use only non-sparking tools.**Take precautionary measures against static discharge.**Avoid breathing dust/fume/gas/mist/vapors/spray**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**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).**Call a poison center/doctor if you feel unwell.**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. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*· **Classification system:**· **NFPA ratings (scale 0 - 4)***Health = 2**Fire = 3**Reactivity = 0*· **HMIS-ratings (scale 0 - 4)***Health = 2**Fire = 3**Reactivity = 0*

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

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
107-98-2 1-methoxy-2-propanol
- **Identification number(s)**
- **EC number:** 203-539-1
- **Index number:** 603-064-00-3

- **Dangerous components:**

1589-47-5	2-methoxypropanol	≤2.5%
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### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for 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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.

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*Do not allow to enter sewers/ surface or ground water.*

**· Methods and material for containment and cleaning up:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

**· 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:**

100 ppm

**· PAC-2:**

160 ppm

**· PAC-3:**

660 ppm

## 7 Handling and storage

**· Handling:**

**· Precautions for safe handling**

*Ensure good ventilation/exhaustion at the workplace.*

*Open and handle receptacle with care.*

*Prevent formation of aerosols.*

**· Information about protection against explosions and fires:**

*Keep ignition sources away - Do not smoke.*

*Protect from heat.*

*Protect against electrostatic charges.*

*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.*

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### 107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m <sup>3</sup> , 150 ppm Long-term value: 360 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm
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 and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **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.

· **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: Liquid

Color: Clear

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** 4-7

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· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-96.7 °C (-142.1 °F)
<b>Boiling point/Boiling range:</b>	120.3 °C (248.5 °F)
· <b>Flash point:</b>	35 °C (95 °F)
· <b>Flammability (solid, gaseous):</b>	Not flammable.
· <b>Ignition temperature:</b>	270 °C (518 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	2.3 Vol %
<b>Upper:</b>	~20 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	12 hPa (9 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	3.11 g/cm <sup>3</sup> (25.95295 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	1.9 mPas
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	100.0 %
<b>VOC content:</b>	100.00 %
	3,110.0 g/l / 25.95 lb/gal
<b>Solids content:</b>	0.0 %
· <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.

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 107-98-2 1-methoxy-2-propanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety Health Administration)**

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 (Assessment by list): 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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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

· **UN-Number**· **DOT, ADR, IMDG, IATA**

UN3092

· **UN proper shipping name**· **DOT**

1-Methoxy-2-propanol

· **ADR**

3092 1-METHOXY-2-PROPANOL

· **IMDG, IATA**

1-METHOXY-2-PROPANOL

· **Transport hazard class(es)**· **DOT**· **Class**

3 Flammable liquids

· **Label**

3

· **ADR, IMDG, IATA**· **Class**

3 Flammable liquids

· **Label**

3

· **Packing group**· **DOT, ADR, IMDG, IATA**

III

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 30· **EMS Number:**

F-E,S-D

· **Stowage Category**

A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

· **ADR**· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | <p>UN 3092 1-METHOXY-2-PROPANOL, 3, III</p>  |

## 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):**

None of the ingredients is listed.

- **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.

- **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)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

- **Hazard pictograms**



GHS02   GHS06   GHS07   GHS08

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**Trade name: CONDUCTIVE GOLD-PASTE EXTENDER**

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· **Signal word** *Danger*

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

*1-methoxy-2-propanol*

*2-methoxypropanol*

· **Hazard statements**

*Flammable liquid and vapor.*

*Toxic if inhaled.*

*Causes serious eye irritation.*

*May damage fertility or the unborn child.*

*May cause drowsiness or dizziness.*

· **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.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

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

*Wash thoroughly after handling.*

*Use only outdoors or in a well-ventilated area.*

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

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*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).*

*Call a poison center/doctor if you feel unwell.*

*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. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*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** 01/26/2022 / -

· **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)*

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**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**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 3: Acute toxicity – Category 3**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Repr. 1B: Reproductive toxicity – Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

US

# Safety Data Sheet

## according to WHS Regulations

Printing date 26.01.2022

Revision: 26.01.2022

### 1 Identification

- **Product identifier**
- **Trade name:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Article number:** 12643
- **CAS Number:**  
107-98-2
- **EC number:**  
203-539-1
- **Index number:**  
603-064-00-3
- **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  
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
- 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
- **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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

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AU

# Safety Data Sheet

## according to WHS Regulations

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Revision: 26.01.2022

Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

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GHS08 health hazard

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **Label elements**

· **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02



GHS06



GHS07



GHS08

· **Signal word** *Danger*

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

1-methoxy-2-propanol

2-methoxypropanol

· **Hazard statements**

Flammable liquid and vapour.

Toxic if inhaled.

Causes serious eye irritation.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

· **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.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**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).

Call a **POISON CENTER/doctor** if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO<sub>2</sub>, powder or water spray for extinction.

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- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- 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 and Information on Ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**  
107-98-2 1-methoxy-2-propanol
- **Identification number(s)**
- **EC number:** 203-539-1
- **Index number:** 603-064-00-3

· **Dangerous components:**

1589-47-5	2-methoxypropanol	≤2.5%
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### 4 First Aid Measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for 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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

AU

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# Safety Data Sheet

## according to WHS Regulations

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### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
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:**

#### 107-98-2 1-methoxy-2-propanol

WES	Short-term value: 553 mg/m <sup>3</sup> , 150 ppm Long-term value: 369 mg/m <sup>3</sup> , 100 ppm
-----	---

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

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- **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 and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **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.
- **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>	Liquid
<b>Colour:</b>	Clear
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** 4-7
- **Change in condition**

<b>Melting point/freezing point:</b>	-96.7 °C
<b>Initial boiling point and boiling range:</b>	120.3 °C
- **Flash point:** 35 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 270 °C

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· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	2.3 Vol %
<b>Upper:</b>	~20 Vol %
· <b>Vapour pressure at 20 °C:</b>	12 hPa
· <b>Density at 20 °C:</b>	3.11 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	1.9 mPas
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	100.0 %
<b>VOC (EC)</b>	100.00 %
<b>Solids content:</b>	0.0 %
· <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**

· <b>LD/LC50 values relevant for classification:</b>		
<b>107-98-2 1-methoxy-2-propanol</b>		
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.

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- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
- **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) (Assessment by list): 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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>                                | <p>UN3092</p>   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADG</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | <p>3092 1-METHOXY-2-PROPANOL<br/>1-METHOXY-2-PROPANOL</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADG, IMDG, IATA</b></li> </ul>               | <p>3 Flammable liquids.</p>                               |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  | <p>3<br/>3</p>  |



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· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	<i>III</i>
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	<i>Warning: Flammable liquids.</i> <i>30</i> <i>F-E,S-D</i> <i>A</i>
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>ADG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>Transport category</b> · <b>Tunnel restriction code</b>	<i>3</i> <i>D/E</i>
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<i>UN 3092 1-METHOXY-2-PROPANOL, 3, III</i>

### 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**

*None of the ingredients is listed.*

· **Australia: Priority Existing Chemicals**

*None of the ingredients is listed.*

· **GHS label elements**

*The substance is classified and labelled according to the Globally Harmonised System (GHS).*

· **Hazard pictograms**



GHS02   GHS06   GHS07   GHS08

· **Signal word** *Danger*

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

*1-methoxy-2-propanol*

*2-methoxypropanol*

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## according to WHS Regulations

Printing date 26.01.2022

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**Trade name: CONDUCTIVE GOLD-PASTE EXTENDER**

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- **Hazard statements**

*Flammable liquid and vapour.  
Toxic if inhaled.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
May cause drowsiness or dizziness.*

- **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.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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).  
Call a POISON CENTER/doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use CO<sub>2</sub>, powder or water spray for extinction.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** Substance is not listed.

- **Seveso category**

*H2 ACUTE TOXIC*

*P5c FLAMMABLE LIQUIDS*

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

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

- **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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

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*LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 3: Flammable liquids – Category 3**Acute Tox. 3: Acute toxicity – Category 3**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Repr. 1B: Reproductive toxicity – Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

AU

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/26/2022

Reviewed on 01/26/2022

### 1 Identification

- **Product identifier**
- **Trade name:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Article number:** 12643
- **CAS Number:**  
107-98-2
- **EC number:**  
203-539-1
- **Index number:**  
603-064-00-3
- **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

Flammable Liquids - Category 3

H226 Flammable liquid and vapour.



GHS06 Skull and crossbones

Acute Toxicity (Inhalation) - Category 3

H331 Toxic if inhaled.



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.

Specific Target Organ Toxicity - Single Exposure -  
Category 3

H336 May cause drowsiness or dizziness.

- **Label elements**

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

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# Safety Data Sheet

## according to HPR, Schedule 1

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Trade name: CONDUCTIVE GOLD-PASTE EXTENDER

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## · Hazard pictograms



GHS02   GHS06   GHS07   GHS08

· Signal word *Danger*

## · Hazard-determining components of labeling:

*1-methoxy-2-propanol**2-methoxypropanol*

## · Hazard statements

*Flammable liquid and vapour.**Toxic if inhaled.**Causes serious eye irritation.**May damage fertility or the unborn child.**May cause drowsiness or dizziness.*

## · 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.**Ground and bond container and receiving equipment.**Use explosion-proof [electrical/ventilating/lighting] equipment.**Use non-sparking tools.**Take actions to prevent static discharges.**Avoid breathing dust/fume/gas/mist/vapours/spray.**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**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).**Call a poison center/doctor if you feel unwell.**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. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

## · Classification system:

## · NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

## · HMIS-ratings (scale 0 - 4)



HEALTH 2 Health = 2

FIRE 3 Fire = 3

REACTIVITY 0 Reactivity = 0

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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

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### 3 Composition/Information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
107-98-2 1-methoxy-2-propanol
- **Identification number(s)**
- **EC number: 203-539-1**
- **Index number: 603-064-00-3**

- **Dangerous components:**

1589-47-5 2-methoxypropanol

0.1-1% w/w \*

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

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for 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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

· **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**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

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:**

**107-98-2 1-methoxy-2-propanol**

EL STEL: 100 ppm

TWA: 50 ppm

EV STEL: 550 mg/m<sup>3</sup>, 150 ppm

TWA: 365 mg/m<sup>3</sup>, 100 ppm

**1589-47-5 2-methoxypropanol**

EL STEL: 40 ppm

TWA: 20 ppm

· **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 and skin.

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# Safety Data Sheet

## according to HPR, Schedule 1

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**Trade name: CONDUCTIVE GOLD-PASTE EXTENDER**

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· **Breathing equipment:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*

· **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.*

· **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>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

· **pH-value:** 4-7

· **Change in condition**

<b>Melting point/Melting range:</b>	-96.7 °C
<b>Boiling point/Boiling range:</b>	120.3 °C

· **Flash point:** 35 °C

· **Flammability (solid, gaseous):** Not flammable.

· **Ignition temperature:** 270 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** *Product is not explosive. However, formation of explosive air/vapor mixtures are possible.*

· **Explosion limits:**

**Lower:** 2.3 Vol %

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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

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<b>Upper:</b>	~20 Vol %
· <b>Vapor pressure at 20 °C:</b>	12 hPa
· <b>Density at 20 °C:</b>	3.11 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	1.9 mPas
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	100.0 %
<b>Solids content:</b>	0.0 %
· <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:**

· **LD/LC50 values that are relevant for classification:**

### 107-98-2 1-methoxy-2-propanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

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

None of the ingredients is listed.

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# Safety Data Sheet

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· **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 (Assessment by list): 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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |   |                           |
|---|---------------------------|
| · <b>UN-Number</b>  | UN3092                    |
| · <b>DOT/TDG, ADR, IMDG, IATA</b>   |                           |
| · <b>UN proper shipping name</b>  | 1-Methoxy-2-propanol      |
| · <b>DOT/TDG</b>  | 3092 1-METHOXY-2-PROPANOL |
| · <b>ADR</b>  | 1-METHOXY-2-PROPANOL      |
| · <b>IMDG, IATA</b>   |                           |
| · <b>Transport hazard class(es)</b>   |                           |
| · <b>DOT/TDG (Transport dangerous goods):</b>                                       |                           |
|  |                           |
| · <b>Class</b>  | 3 Flammable liquids       |

(Contd. on page 8)

CA

# Safety Data Sheet


according to HPR, Schedule 1

Printing date 01/26/2022

Reviewed on 01/26/2022

Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 7)

· <b>Label</b>	3
· <b>ADR, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT/TDG, ADR, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	30
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT/TDG</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3092 1-METHOXY-2-PROPANOL, 3, III

## 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):**

None of the ingredients is listed.

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

All components have the value ACTIVE.

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CA

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/26/2022

Reviewed on 01/26/2022

**Trade name: CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 8)

· **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%)**

107-98-2 | 1-methoxy-2-propanol

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

· **Hazard pictograms**



GHS02   GHS06   GHS07   GHS08

· **Signal word** *Danger*

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

1-methoxy-2-propanol

2-methoxypropanol

· **Hazard statements**

Flammable liquid and vapour.

Toxic if inhaled.

Causes serious eye irritation.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

· **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.

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take actions to prevent static discharges.

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

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

**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).

Call a poison center/doctor if you feel unwell.

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. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/26/2022

Reviewed on 01/26/2022

**Trade name: CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 9)

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** 01/26/2022 / -
- **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)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative

CA

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

Printing date 26.01.2022

Revision: 26.01.2022

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

- **1.1 Product identifier**
- **Trade name:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Article number:** 12643
- **CAS Number:**  
107-98-2
- **EC number:**  
203-539-1
- **Index number:**  
603-064-00-3
- **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  
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**



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



health hazard

Repr. 1B H360D May damage the unborn child.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

(Contd. on page 2)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2022

Revision: 26.01.2022

Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 1)

· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS02    GHS06    GHS08

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

1-methoxy-2-propanol

2-methoxypropanol

· **Hazard statements**

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P405 Store locked up.

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

· **3.1 Chemical characterisation: Substances**· **CAS No. Description**

107-98-2 1-methoxy-2-propanol

· **Identification number(s)**· **EC number:** 203-539-1· **Index number:** 603-064-00-3· **Dangerous components:**

CAS: 1589-47-5	2-methoxypropanol	≤2.5%
EINECS: 216-455-5		

GB

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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 2)

**SECTION 4: First aid measures**· **4.1 Description of first aid measures**· **General information:***Immediately remove any clothing soiled by the product.**Remove breathing equipment only after contaminated clothing have been completely removed.**In case of irregular breathing or respiratory arrest provide artificial respiration.*· **After inhalation:***Supply fresh air or oxygen; call for 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.*· **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:***CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*· **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*· **5.3 Advice for firefighters**· **Protective equipment:** *Mouth respiratory protective device.***SECTION 6: Accidental release measures**· **6.1 Personal precautions, protective equipment and emergency procedures***Wear protective equipment. Keep unprotected persons away.*· **6.2 Environmental precautions:***Dilute with plenty of water.**Do not allow to enter sewers/ surface or ground water.*· **6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.*· **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***Ensure good ventilation/exhaustion at the workplace.**Open and handle receptacle with care.**Prevent formation of aerosols.*· **Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.*

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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 3)

*Protect from heat.**Protect against electrostatic charges.**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>107-98-2 1-methoxy-2-propanol</b>	
WEL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	Sk

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

- **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 and skin.*

- **Respiratory protection:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

- **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.*

- **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.*

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**Safety data sheet**  
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Revision: 26.01.2022

Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

(Contd. of page 4)

· **Eye protection:**

Tightly sealed goggles

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form:	Liquid
Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: 4-7

##### · Change in condition

Melting point/freezing point:	-96.7 °C
Initial boiling point and boiling range:	120.3 °C

· Flash point: 35 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 270 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

Lower:	2.3 Vol %
Upper:	~20 Vol %

· Vapour pressure at 20 °C: 12 hPa

· Density at 20 °C:	3.11 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

##### · Solubility in / Miscibility with water:

Fully miscible.

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

##### · Viscosity:

Dynamic at 20 °C:	1.9 mPas
Kinematic:	Not determined.
Organic solvents:	100.0 %
VOC (EC)	100.00 %

Solids content: 0.0 %

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# Safety data sheet

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

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**· 9.2 Other information**

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**  
Toxic if inhaled.

**· LD/LC50 values relevant for classification:****107-98-2 1-methoxy-2-propanol**

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

- **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** Based on available data, the classification criteria are not met.
- **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.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **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) (Assessment by list): slightly hazardous for water

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# Safety data sheet

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

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- 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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 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>   | <p style="text-align: right;">UN3092</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | <p style="text-align: right;">3092 1-METHOXY-2-PROPANOL<br/>1-METHOXY-2-PROPANOL</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | <div style="text-align: center;">  </div> <p style="text-align: right;">3 Flammable liquids.<br/>3</p> |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: right;">III</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>  | <p style="text-align: right;">Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>14.6 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> </ul> | <p style="text-align: right;">Warning: Flammable liquids.<br/>30<br/>F-E,S-D<br/>A</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>  | <p style="text-align: right;">Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>  |   |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>   | <p style="text-align: right;">5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml</p>                               |
| <ul style="list-style-type: none"> <li>· <b>Transport category</b></li> </ul>   | <p style="text-align: right;">3</p>   |

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**Safety data sheet**  
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Trade name: **CONDUCTIVE GOLD-PASTE EXTENDER**

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· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3092 1-METHOXY-2-PROPANOL, 3, III

### 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 Substance is not listed.**
- **Seveso category**  
H2 ACUTE TOXIC  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**
- **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**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory 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)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

# 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 2022.01.26

在 2022.01.26 审核

## 1 化学品及企业标识

- **产品识别者**
- **化学品中文名称、英文名称、化学品俗名或商品名:** CONDUCTIVE GOLD-PASTE EXTENDER
- **商品编号:** 12643
- **编号编号**  
107-98-2
- **欧盟编号:**  
203-539-1
- **欧盟编号:**  
603-064-00-3
- **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:

纯净的，液体，易燃液体和蒸气。吸入会中毒。造成轻微皮肤刺激。造成严重眼刺激。可能对生育能力或胎儿造成伤害。可引起昏睡或眩晕。

### · GHS危险性类别



火焰

易燃液体 第3类

H226 易燃液体和蒸气



骷髅和交叉骨

急性毒性(吸入) 第3类

H331 吸入会中毒



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

特定靶器官系统毒性 (单次接触) 第3类 H336 可引起昏睡或眩晕

(在 2 页继续)



# 化学品安全技术说明书

据根据据据T 16483-2008, GB/T 17519-2013

打印日期 2022.01.26

在 2022.01.26 审核

化学品中文名称: 导电金膏  
 化学品英文名称: CONDUCTIVE GOLD-PASTE EXTENDER  
 化学品俗名或商品名: CONDUCTIVE GOLD-PASTE EXTENDER

(在 1 页继续)

皮肤腐蚀/刺激 第3类

H316 造成轻微皮肤刺激

## · 标签要素

· GHS卷标要素 本化学物质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。

## · 象形图



GHS02 GHS06 GHS08

## · 警示词 危险

## · 标签上辨别危险的成份:

- 1-甲氧基-2-丙醇 (99 %)
- 2-甲氧基-1-丙醇 (≤2.5 %)

## · 危险性说明

- 易燃液体和蒸气
- 吸入会中毒
- 造成轻微皮肤刺激
- 造成严重眼刺激
- 可能对生育能力或胎儿造成伤害
- 可引起昏睡或眩晕

## · 防范说明

## · 预防措施

- 远离热源/火花/明火/热表面。禁止吸烟
- 使用防爆的电气/通风/照明/设备

## · 应急措施

- 如皮肤(或头发)沾染:立即脱掉所有沾染的衣服。用水清洗皮肤/淋浴
- 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

## · 贮存

· 贮存 存放处须加锁

## · 处置

· 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

## · 纯品

## · CAS号 化学名, 通用名

107-98-2 1-甲氧基-2-丙醇 1-methoxy-2-propanol

## · 鉴别编号:

· 欧盟编号: 203-539-1

· 欧盟编号: 603-064-00-3

## · 危险的成分:

1589-47-5	2-甲氧基-1-丙醇 2-methoxypropanol	≤2.5%
	<ul style="list-style-type: none"> <li>☠ 易燃液体 第3类, H226; ☠ 生殖毒性 第1B类, H360; ☠ 严重眼睛损伤/眼睛刺激性 第1类, H318; ☠ 皮肤腐蚀/刺激 第2类, H315; 特定靶器官系统毒性 (单次接触) 第3类, H335</li> </ul>	

CN

(在 3 页继续)

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(在 2 页继续)

## 4 急救措施

### · 应急措施要领

#### · 总说明:

- 马上脱下染有该产品的衣服。
- 只在彻底地脱去了已被污染的衣服之后才能移走呼吸仪器。
- 万一出现了不规则的呼吸或呼吸的阻碍, 请为病人提供人工呼吸。

#### 吸入吸入吸入

- 供给新鲜空气或氧气; 叫医生。
- 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。

#### 食入食入食入如果症状仍然持续, 请咨询医生。

#### · 给医生的资料:

- 最重要的急慢性症状及其影响 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: 二氧化碳 (CO<sub>2</sub>)、灭火粉末或洒水。使用洒水或抗酒精泡沫灭火剂扑灭较大的火种。

#### · 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: 口腔呼吸保护装置。

## 6 泄漏应急处理

### · 保护措施 带上保护仪器。让未受到保护的人们远离。

#### · 环境保护措施:

- 用大量的水进行稀释。
- 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:

吸收液体粘合原料 (沙粒、硅藻土、酸性粘合剂、通用粘合剂、锯屑)。

根据第 13 条条款弃置受污染物。

确保有足够的通风装置。

#### · 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

#### 储存储存储存

- 确保工作间有良好的通风/排气装置。
- 小心打开及处理贮藏器。
- 防止气溶胶的形成。

#### · 有关火灾及防止爆炸的资料:

- 远离火源 - 切勿吸烟。
- 防热。
- 防静电。

(在 4 页继续)

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(在 3 页继续)

提供呼吸保护装置。

## · 混合危险性安全储存条件

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。
- 控制变数

### · 在工作场需要监控的限值成分

107-98-2 1-甲氧基醇丙醇丙醇

PEL (TW) | PC-TWA: 369 mg/m<sup>3</sup>, 100 ppm

- 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。
    - 避免和眼睛及皮肤接触。
  - 呼吸系统防护:
    - 如果曾短暂接触或在低污染的情况下,请使用呼吸过滤装置。如果曾深入或较长时间接触,请使用独立的呼吸保护装置。
  - 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
- 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

-CN-

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(在 4 页继续)

## 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	液体
颜色颜色颜色	纯净的
气味气味气味	有特性的
· 嗅觉阈限	未决定.
· pH值:	4-7
· 条件的更改	
熔点熔点熔点	-96.7 °C
沸点沸点沸点	沸点和沸程: 120.3 °C
闪点闪点闪点	35 °C
· 可燃性 (固体、气体): 不适用的	
· 点火温度:	270 °C
· 分解温度:	未决定.
· 自燃温度:	未决定.
· 爆炸的危险性:	该产品并非爆炸性的然而有可能形成可爆炸性的空气/蒸汽混合物
· 爆炸极限:	
较低较低较低	2.3 Vol %
较高较高较高	~20 Vol %
· 蒸气压 在 20 °C:	12 hPa
密度密度密度0 °C:	3.11 g/cm <sup>3</sup>
· 相对密度	未决定.
· 蒸气密度	未决定.
· 蒸发速率	未决定.
溶解性	
水:	完全可拌和的
· n-辛醇/水分配系数未决定.	
· 黏性:	
动态动态动态0 °C:	1.9 mPas
运动运动运动的	未决定.
机溶剂溶剂	100.0 %
· 固体成份:	0.0 %
· 其他信息	无相关详细资料。

## 10 稳定性和反应性

- 稳定性: 无相关详细资料。
- 稳定性: 稳定
- 分解分解分解: 如果遵照规格使用则不会分解。
- 有害有害有害: 未有已知的危险反应。
- 避免避免避免: 无相关详细资料。
- 不相容的物质: 无相关详细资料。

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 化学品俗名或商品名: CONDUCTIVE GOLD-PASTE EXTENDER

(在 6 页继续)

## 14 运输信息

联合国危险货物编号(UN号)

· ADR, IMDG, IATA UN3092

适当适当船名

· ADR 3092 1-甲氧基-2-丙醇  
 · IMDG, IATA 1-METHOXY-2-PROPANOL

运输危险等级

· ADR, IMDG, IATA



· 级别 3 易燃液体

标签标签标签

3

· 包装组别

· ADR, IMDG, IATA III

· 环境危害

不适用的

· 用户特别预防措施

警告: 易燃液体

· 危险编码:

30

· E码号码号码

F-E,S-D

· Stowage Category

A

· 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国际国际船货船编码(大量大量)

运送运送运送

不适用的

运输运输额外的资料:

· ADR

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "标准规定":

UN 3092 1-甲氧基-2-丙醇, 3, III

## 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

· 危险化学品目录目录

没有列出成份

(在 8 页继续)

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(在 7 页继续)

- 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 本化学物质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。
- 象形图



GHS02 GHS06 GHS08

- 警示词 危险
- 标签上辨别危险的成份:
  - 1-甲氧基-2-丙醇 (99 %)
  - 2-甲氧基-1-丙醇 (≤2.5 %)
- 危险性说明
  - 易燃液体和蒸气
  - 吸入会中毒
  - 造成轻微皮肤刺激
  - 造成严重眼刺激
  - 可能对生育能力或胎儿造成伤害
  - 可引起昏睡或眩晕

### · 防范说明

### · 预防措施

远离热源/火花/明火/热表面。禁止吸烟  
 使用防爆的电气/通风/照明/设备

### · 应急措施

如皮肤(或头发)沾染:立即脱掉所有沾染的衣服。用水清洗皮肤/淋浴  
 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

### 贮存

存放处须加锁

### 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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: 持久性生物累积性有毒物质  
 vPvB: very Persistent and very Bioaccumulative  
 易燃液体 第3类: Flammable liquids – Category 3  
 急性毒性(吸入) 第3类: Acute toxicity – Category 3

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**化学品中文名称: 导电金浆稀释剂** **化学品俗名或商品名: CONDUCTIVE GOLD-PASTE EXTENDER**

(在 8 页继续)

皮肤腐蚀/刺激 第2类: Skin corrosion/irritation – Category 2

皮肤腐蚀/刺激 第3类: Skin corrosion/irritation – Category 3

严重眼睛损伤/眼睛刺激性 第1类: Serious eye damage/eye irritation – Category 1

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

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

特定靶器官系统毒性 ( 单次接触 ) 第3类: Specific target organ toxicity (single exposure) – Category 3

CN



# Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

datum van de druk: 26.01.2022

Herziening van: 26.01.2022

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

### · 1.1 Productidentificatie

· **Handelsnaam:** CONDUCTIVE GOLD-PASTE EXTENDER

· **Artikelnummer:** 12643

· **CAS-nummer:**

107-98-2

· **EC-nummer:**

203-539-1

· **Catalogusnummer:**

603-064-00-3

· **UFI:** FW42-F0F9-N002-4YJN

· **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

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: 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**



GHS02 vlam

Flam. Liq. 3 H226 Ontvlambare vloeistof en damp.



GHS06 doodshoofd met gekruiste beenderen

Acute Tox. 3 H331 Giftig bij inademing.



GHS08 gezondheidsgevaar

Repr. 1B H360D Kan het ongeboren kind schaden.

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 26.01.2022

Herziening van: 26.01.2022

**Handelsnaam: CONDUCTIVE GOLD-PASTE EXTENDER**

(Vervolg van blz. 1)



GHS07

Eye Irrit. 2 H319 Veroorzaakt ernstige oogirritatie.  
 STOT SE 3 H336 Kan slaperigheid of duizeligheid veroorzaken.

- 2.2 Etikettersymbolen
- Etikettersymbolen overeenkomstig Verordening (EG) nr. 1272/2008  
 De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.
- Gevarenpictogrammen



GHS02 GHS06 GHS08

- Signaalwoord Gevaar
- Gevaaraanduidende componenten voor de etikettering:  
 1-methoxy-2-propanol  
 2-methoxypropanol
- Gevarenaanduidingen  
 H226 Ontvlambare vloeistof en damp.  
 H331 Giftig bij inademing.  
 H319 Veroorzaakt ernstige oogirritatie.  
 H360D Kan het ongeboren kind schaden.  
 H336 Kan slaperigheid of duizeligheid veroorzaken.
- Veiligheidsaanbevelingen  
 P210 Verwijderd houden van warmte, hete oppervlakken, vonken, open vuur en andere ontstekingsbronnen. Niet roken.  
 P241 Explosiegevaar [elektrische/ventilatie-/verlichtings-]apparatuur gebruiken.  
 P303+P361+P353 BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen [of afdouchen].  
 P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.  
 P405 Achter slot bewaren.  
 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

- 3.1 Chemische karakterisering: Stoffen
- CAS-Nr. omschrijving  
 107-98-2 1-methoxy-2-propanol
- Identificatienummer(s)
- EC-nummer: 203-539-1
- Catalogusnummer: 603-064-00-3

(Vervolg op blz. 3)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 26.01.2022

Herziening van: 26.01.2022

**Handelsnaam: CONDUCTIVE GOLD-PASTE EXTENDER**

(Vervolg van blz. 2)

**· Gevaarlijke inhoudstoffen:**

CAS: 1589-47-5	2-methoxypropanol	≤2,5%
EINECS: 216-455-5	⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360D; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	

## RUBRIEK 4: Eerstehulpmaatregelen

**· 4.1 Beschrijving van de eerstehulpmaatregelen**

**· Algemene informatie:**

Verontreinigde kleding onmiddellijk uittrekken.

Ademhalingstoestel pas afnemen nadat de verontreinigde kleding verwijderd is.

Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.

**· Na het inademen:**

Verse lucht of zuurstof toedienen; deskundige medische hulp invoeren.

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:**

CO<sub>2</sub>, bluspoeder of waterstraal. Grotere brand met waterstraal bestrijden of met schuim, dat tegen alcohol bestand is.

**· 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: Ademhalingstoestel aantrekken.**

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

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

Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.

**· 6.2 Milieuvoorzorgsmaatregelen:**

Met veel water verdunnen.

Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

**· 6.3 InsluTINGS- en reinigingsmethoden en -materiaal:**

Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

**· 6.4 Verwijzing naar andere rubrieken**

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

(Vervolg op blz. 4)

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Informatie inzake berging - zie hoofdstuk 13.

(Vervolg van blz. 3)

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
 Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.  
 Tanks voorzichtig openen en behandelen.  
 Aërosolvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:**  
 Onststekingsbronnen op afstand houden - niet roken.  
 Beschermen tegen hitte.  
 Maatregelen treffen tegen ontlading van statische elektriciteit.  
 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.
- **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:**

#### 107-98-2 1-methoxy-2-propanol

WGW	Korte termijn waarde: 563 mg/m <sup>3</sup> , 150 ppm
	Lange termijn waarde: 375 mg/m <sup>3</sup> , 100 ppm

- **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 en de huid vermijden.
- **Ademhalingsbescherming:**  
 Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingsstoestel gebruiken.
- **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.

(Vervolg op blz. 5)

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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.

· **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>	Vloeistof
<b>Kleur:</b>	Helder
<b>Geur:</b>	Karakteristiek
<b>Geurdrempelwaarde:</b>	Niet bepaald.

· **pH-waarde:** 4-7

· **Toestandsverandering**

<b>Smelt-/vriespunt:</b>	-96,7 °C
<b>Beginkookpunt en kooktraject:</b>	120,3 °C

· **Vlampunt:** 35 °C

· **Ontvlambaarheid (vast, gas):** Niet bruikbaar.

· **Ontstekingstemperatuur:** 270 °C

· **Ontledingstemperatuur:** Niet bepaald.

· **Zelfontbrandingstemperatuur:** Niet bepaald.

· **Ontploffingseigenschappen:** Het produkt is niet ontploffingsgevaarlijk, maar de vorming van ontploffingsgevaarlijke damp-/luchtmengsels is mogelijk.

· **Ontploffingsgrenzen:**

<b>Onderste:</b>	2,3 Vol %
<b>Bovenste:</b>	~20 Vol %

· **Dampspanning bij 20 °C:** 12 hPa

· <b>Dichtheid bij 20 °C:</b>	3,11 g/cm <sup>3</sup>
· <b>Relatieve dichtheid</b>	Niet bepaald.
· <b>Dampdichtheid</b>	Niet bepaald.
· <b>Verdampingssnelheid</b>	Niet bepaald.

· **Oplosbaarheid in/mengbaarheid met**

**Water:** Volledig mengbaar.

· **Verdelingscoëfficiënt: n-octanol/water:** Niet bepaald.

· **Viscositeit**

**Dynamisch bij 20 °C:** 1,9 mPas

(Vervolg op blz. 6)

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<b>Kinematisch:</b>	Niet bepaald.
<b>Organisch oplosmiddel:</b>	100,0 %
<b>VOC (EG)</b>	100,00 %

**Gehalte aan vaste bestanddelen:** 0,0 %

· **9.2 Overige informatie** 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**  
Giftig bij inademing.

· **Indelingsrelevantie LD/LC50-waarden:**

**107-98-2 1-methoxy-2-propanol**

Oraal	LD50	5.660 mg/kg (rat)
Dermaal	LD50	13.000 mg/kg (rabbit)
Inhalatief	LC50/4 h	6 mg/l (rat)

- **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**  
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **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**  
Kan slaperigheid of duizeligheid veroorzaken.
- **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.

(Vervolg op blz. 7)

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- **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) (Lijstclassificatie): 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 terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.
- **Aanbevolen reinigingsmiddel:** Water, eventueel met toevoeging van reinigingsmiddelen.

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

- |   |                                      |
|---|--------------------------------------|
| · <b>14.1 VN-nummer</b>   | UN3092                               |
| · <b>ADR, IMDG, IATA</b>  |                                      |
| · <b>14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN</b>        |                                      |
| · <b>ADR</b>  | 3092 1-METHOXY-2-PROPANOL            |
| · <b>IMDG, IATA</b>   | 1-METHOXY-2-PROPANOL                 |
| · <b>14.3 Transportgevarenklasse(n)</b>   |                                      |
| · <b>ADR, IMDG, IATA</b>  |                                      |
|  |                                      |
| · <b>klasse</b>   | 3 Brandbare vloeistoffen             |
| · <b>Etiket</b>   | 3                                    |
| · <b>14.4 Verpakkingsgroep:</b>   |                                      |
| · <b>ADR, IMDG, IATA</b>  | III                                  |
| · <b>14.5 Milieugevaren:</b>  | Niet bruikbaar.                      |
| · <b>14.6 Bijzondere voorzorgen voor de gebruiker</b>                               | Waarschuwing: Brandbare vloeistoffen |
| · <b>Gevaarsidentificatienummer (Kemler-getal):</b>                                 | 30                                   |
| · <b>EMS-nummer:</b>  | F-E,S-D                              |
| · <b>Stowage Category</b>   | A                                    |
| · <b>14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code</b>   | Niet bruikbaar.                      |

(Vervolg op blz. 8)

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· **Transport/verdere gegevens:**

· **ADR**

· **Beperkte hoeveelheden (LQ)**

5L

· **Uitgezonderde hoeveelheden (EQ)**

Code: E1

Grootste netto hoeveelheid per binnenverpakking: 30 ml

Grootste netto hoeveelheid per buitenverpakking: 1000 ml

· **Vervoerscategorie**

3

· **Tunnelbeperkingscode**

D/E

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **VN "Model Regulation":**

UN 3092 1-METHOXY-2-PROPANOL, 3, III

## 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**

1589-47-5 | 2-methoxypropanol

IB

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

geen der bestanddelen staat op de lijst.

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

1589-47-5 | 2-methoxypropanol

· **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** De stof is niet aanwezig.

· **Seveso-categorie**

H2 ACUUT TOXISCH

P5c ONTVLAMBARE VLOEISTOFFEN

· **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen** 50 t

· **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen** 200 t

· **Verordening (EG) nr. 1907/2006 BIJLAGE XVII** Beperkingsvoorwaarden: 3, 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.

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· **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)

· **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**

H226 Ontvlambare vloeistof en damp.  
 H315 Veroorzaakt huidirritatie.  
 H318 Veroorzaakt ernstig oogletsel.  
 H335 Kan irritatie van de luchtwegen veroorzaken.  
 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)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 3: Ontvlambare vloeistoffen – Categorie 3  
 Acute Tox. 3: Acute toxiciteit – Categorie 3  
 Skin Irrit. 2: Huidcorrosie/-irritatie – Categorie 2  
 Eye Dam. 1: Ernstig oogletsel/oogirritatie – Categorie 1  
 Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2  
 Repr. 1B: Voortplantingstoxiciteit – Categorie 1B  
 STOT SE 3: Specifieke doelorgaan toxiciteit bij eenmalige blootstelling – Categorie 3

**Fiche de données de sécurité**  
selon 1907/2006/CE, Article 31

Date d'impression : 26.01.2022

Révision: 26.01.2022

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

- **1.1 Identificateur de produit**
- **Nom du produit:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Code du produit:** 12643
- **No CAS:**  
107-98-2
- **Numéro CE:**  
203-539-1
- **Numéro index:**  
603-064-00-3
- **UFI:** FW42-F0F9-N002-4YJN
- **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**



GHS02 flamme

Flam. Liq. 3 H226 Liquide et vapeurs inflammables.



GHS06 tête de mort sur deux tibias

Acute Tox. 3 H331 Toxique par inhalation.



GHS08 danger pour la santé

Repr. 1B H360D Peut nuire au fœtus.



GHS07

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

STOT SE 3 H336 Peut provoquer somnolence ou vertiges.

(suite page 2)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

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**Nom du produit: CONDUCTIVE GOLD-PASTE EXTENDER**

(suite de la page 1)

- 2.2 Éléments d'étiquetage
- Etiquetage selon le règlement (CE) n° 1272/2008 La substance est classifiée et étiquetée selon le règlement CLP.
- Pictogrammes de danger



GHS02 GHS06 GHS08

- **Mention d'avertissement** Danger
- **Composants dangereux déterminants pour l'étiquetage:**
  - 1-méthoxy-2-propanol
  - 2-méthoxypropanol
- **Mentions de danger**
  - H226 Liquide et vapeurs inflammables.
  - H331 Toxique par inhalation.
  - H319 Provoque une sévère irritation des yeux.
  - H360D Peut nuire au fœtus.
  - H336 Peut provoquer somnolence ou vertiges.
- **Conseils de prudence**
  - P210 Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.
  - P241 Utiliser du matériel [électrique/de ventilation/d'éclairage] antidéflagrant.
  - P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés. Rincer la peau à l'eau [ou se doucher].
  - 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.
  - P405 Garder sous clef.
  - P501 Éliminer le contenu/récipient 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

- 3.1 Caractérisation chimique: Substances
- No CAS Désignation
  - 107-98-2 1-méthoxy-2-propanol
- Code(s) d'identification
- Numéro CE: 203-539-1
- Numéro index: 603-064-00-3

· **Composants dangereux:**

CAS: 1589-47-5	2-méthoxypropanol	≤2,5%
EINECS: 216-455-5		

FR

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### RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**

· **Remarques générales:**

Enlever immédiatement les vêtements contaminés par le produit.

Ne retirer la protection respiratoire qu'après avoir retiré les vêtements contaminés.

Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.

· **Après inhalation:**

Donner de l'air frais ou de l'oxygène; demander d'urgence une assistance médicale.

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.

· **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:**

CO<sub>2</sub>, poudre d'extinction ou eau pulvérisée. Combattre les foyers importants avec de l'eau pulvérisée ou de la mousse résistant à l'alcool.

· **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:** Porter un appareil de protection respiratoire.

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

· **6.1 Précautions individuelles, équipement de protection et procédures d'urgence**

Porter un équipement de sécurité. Eloigner les personnes non protégées.

· **6.2 Précautions pour la protection de l'environnement:**

Diluer avec beaucoup d'eau.

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:**

Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).

Évacuer les matériaux contaminés en tant que déchets conformément au point 13.

Assurer une aération suffisante.

· **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**

Veiller à une bonne ventilation/aspiration du poste de travail.

(suite page 4)

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(suite de la page 3)

Ouvrir et manipuler les récipients avec précaution.

Eviter la formation d'aérosols.

· **Préventions des incendies et des explosions:**

Tenir à l'abri des sources d'inflammation - ne pas fumer.

Tenir à l'abri de la chaleur.

Prendre des mesures contre les charges électrostatiques.

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:**

**107-98-2 1-méthoxy-2-propanol**

VLEP	Valeur momentanée: 375 mg/m <sup>3</sup> , 100 ppm
	Valeur à long terme: 188 mg/m <sup>3</sup> , 50 ppm
	risque de pénétration percutanée

· **Remarques supplémentaires:**

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

· **8.2 Contrôles de l'exposition**

· **Équipement 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.

Conservé à part les vêtements de protection.

Eviter tout contact avec les yeux et avec la peau.

· **Protection respiratoire:**

En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.

· **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 ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.

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- **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:	Liquide
Couleur:	Transparent
Odeur:	Caractéristique
Seuil olfactif:	Non déterminé.

· valeur du pH: 4-7

##### · Changement d'état

Point de fusion/point de congélation:	-96,7 °C
Point initial d'ébullition et intervalle d'ébullition:	120,3 °C

· Point d'éclair 35 °C

· Inflammabilité (solide, gaz): Non applicable.

· Température d'inflammation: 270 °C

· Température de décomposition: Non déterminé.

· Température d'auto-inflammabilité: Non déterminé.

· Propriétés explosives: Le produit n'est pas explosif; toutefois, des mélanges explosifs vapeur-air peuvent se former.

##### · Limites d'explosion:

Inférieure:	2,3 Vol %
Supérieure:	~20 Vol %

· Pression de vapeur à 20 °C: 12 hPa

· Densité à 20 °C: 3,11 g/cm<sup>3</sup>

· Densité relative Non déterminé.

· Densité de vapeur: Non déterminé.

· Taux d'évaporation: Non déterminé.

· Solubilité dans/miscibilité avec l'eau:

Entièrement miscible

· Coefficient de partage: n-octanol/eau: Non déterminé.

##### · Viscosité:

Dynamique à 20 °C:	1,9 mPas
Cinématique:	Non déterminé.
Solvants organiques:	100,0 %
VOC (CE)	100,00 %

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**Teneur en substances solides:** 0,0 %

**· 9.2 Autres informations** 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**  
Toxique par inhalation.

**· Valeurs LD/LC50 déterminantes pour la classification:**

**107-98-2 1-méthoxy-2-propanol**

Oral	LD50	5.660 mg/kg (rat)
Dermique	LD50	13.000 mg/kg (lapin)
Inhalatoire	LC50/4 h	6 mg/l (rat)

- **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**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **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**  
Peut provoquer somnolence ou vertiges.
- **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.

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- **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 selon liste): 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.
- **Produit de nettoyage recommandé:** Eau, éventuellement avec des produits de nettoyage

### RUBRIQUE 14: Informations relatives au transport

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 Numéro ONU</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN3092  |
| <ul style="list-style-type: none"> <li>· <b>14.2 Désignation officielle de transport de l'ONU</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | 3092 MÉTHOXY-1 PROPANOL-2<br>1-METHOXY-2-PROPANOL       |
| <ul style="list-style-type: none"> <li>· <b>14.3 Classe(s) de danger pour le transport</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> <li>· <b>Classe</b></li> <li>· <b>Étiquette</b></li> </ul> | 3 Liquides inflammables.<br>3                           |
| <ul style="list-style-type: none"> <li>· <b>14.4 Groupe d'emballage</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | III   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Dangers pour l'environnement:</b></li> </ul>  | Non applicable.   |
| <ul style="list-style-type: none"> <li>· <b>14.6 Précautions particulières à prendre par l'utilisateur</b></li> <li>· <b>Numéro d'identification du danger (Indice Kemler):</b></li> <li>· <b>No EMS:</b></li> <li>· <b>Stowage Category</b></li> </ul>  | Attention: Liquides inflammables.<br>30<br>F-E,S-D<br>A |
| <ul style="list-style-type: none"> <li>· <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC</b></li> </ul>   | Non applicable.   |

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(suite de la page 7)

· **Indications complémentaires de transport:**· **ADR**

- |                                  |  |
|----------------------------------|--|
| · Quantités limitées (LQ)        | 5L   |
| · Quantités exceptées (EQ)       | Code: E1   |
|                                  | Quantité maximale nette par emballage intérieur: 30 ml   |
|                                  | Quantité maximale nette par emballage extérieur: 1000 ml |
| · Catégorie de transport         | 3  |
| · Code de restriction en tunnels | D/E  |

· **IMDG**

- |                            |   |
|----------------------------|---|
| · Limited quantities (LQ)  | 5L  |
| · Excepted quantities (EQ) | Code: E1  |
|                            | Maximum net quantity per inner packaging: 30 ml   |
|                            | Maximum net quantity per outer packaging: 1000 ml |

- |                              |                                      |
|------------------------------|--------------------------------------|
| · "Règlement type" de l'ONU: | UN 3092 MÉTHOXY-1 PROPANOL-2, 3, III |
|------------------------------|--------------------------------------|

### 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 la substance n'est pas comprise

## · Catégorie SEVESO

H2 TOXICITÉ AIGUË

P5c LIQUIDES INFLAMMABLES

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

· Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut 200 t

· RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII Conditions de limitation: 3, 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 SIGNALEMENT

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.

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

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**Fiche de données de sécurité**  
**selon 1907/2006/CE, Article 31**

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**Nom du produit: CONDUCTIVE GOLD-PASTE EXTENDER**

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**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**

H226 Liquide et vapeurs inflammables.

H315 Provoque une irritation cutanée.

H318 Provoque de graves lésions des yeux.

H335 Peut irriter les voies respiratoires.

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Liquides inflammables – Catégorie 3

Acute Tox. 3: Toxicité aiguë – Catégorie 3

Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2

Eye Dam. 1: Lésions oculaires graves/irritation oculaire – Catégorie 1

Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2

Repr. 1B: Toxicité pour la reproduction – Catégorie 1B

STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 26.01.2022

überarbeitet am: 26.01.2022

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

· **1.1 Produktidentifikator**

· **Handelsname:** CONDUCTIVE GOLD-PASTE EXTENDER

· **Artikelnummer:** 12643

· **CAS-Nummer:**

107-98-2

· **EG-Nummer:**

203-539-1

· **Indexnummer:**

603-064-00-3

· **UFI:** FW42-FOF9-N002-4YJN

· **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

· **Auskunftgebender 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**



GHS02 Flamme

Flam. Liq. 3 H226 Flüssigkeit und Dampf entzündbar.



GHS06 Totenkopf mit gekreuzten Knochen

Acute Tox. 3 H331 Giftig bei Einatmen.

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 26.01.2022

überarbeitet am: 26.01.2022

**Handelsname: CONDUCTIVE GOLD-PASTE EXTENDER**

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GHS08 Gesundheitsgefahr

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

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GHS07

Eye Irrit. 2 H319 Verursacht schwere Augenreizung.

 STOT SE 3 H336 Kann Schläfrigkeit und Benommenheit verursachen.
 

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**· 2.2 Kennzeichnungselemente**
**· Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**

Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

**· Gefahrenpiktogramme**


GHS02



GHS06



GHS08

**· Signalwort Gefahr**
**· Gefahrbestimmende Komponenten zur Etikettierung:**

1-Methoxy-2-propanol

2-Methoxy-1-propanol

**· Gefahrenhinweise**

H226 Flüssigkeit und Dampf entzündbar.

H331 Giftig bei Einatmen.

H319 Verursacht schwere Augenreizung.

H360D Kann das Kind im Mutterleib schädigen.

H336 Kann Schläfrigkeit und Benommenheit verursachen.

**· Sicherheitshinweise**

P210 Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.

P241 Explosionsgeschützte [elektrische/Lüftungs-/Beleuchtungs-] Geräte verwenden.

P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].

P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

P405 Unter Verschluss aufbewahren.

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.

DE

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# Sicherheitsdatenblatt

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### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- **3.1 Chemische Charakterisierung: Stoffe**
- **CAS-Nr. Bezeichnung**  
107-98-2 1-Methoxy-2-propanol
- **Identifikationsnummer(n)**
- **EG-Nummer:** 203-539-1
- **Indexnummer:** 603-064-00-3

- **Gefährliche Inhaltsstoffe:**

CAS: 1589-47-5	2-Methoxy-1-propanol	≤2,5%
EINECS: 216-455-5	Flam. Liq. 3, H226;  Repr. 1B, H360D;  Eye Dam. 1, H318;  Skin Irrit. 2, H315; STOT SE 3, H335	

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Allgemeine Hinweise:**  
Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.  
Atemschutz erst nach Entfernen verunreinigter Kleidungsstücke abnehmen.  
Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.
- **Nach Einatmen:**  
Frischluf- oder Sauerstoffzufuhr; ärztliche Hilfe in Anspruch nehmen.  
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:**  
CO<sub>2</sub>, Löschpulver oder Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Atemschutzgerät anlegen.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
- **6.2 Umweltschutzmaßnahmen:**  
Mit viel Wasser verdünnen.

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Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.

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

Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.

Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.

Für ausreichende Lüftung sorgen.

· **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**

Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.

Behälter mit Vorsicht öffnen und handhaben.

Aerosolbildung vermeiden.

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

Zündquellen fernhalten - nicht rauchen.

Vor Hitze schützen.

Maßnahmen gegen elektrostatische Aufladung treffen.

Atemschutzgeräte bereithalten.

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

· **Lagerung:**

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

· **Zusammenlagerungshinweise:** Nicht erforderlich.

· **Weitere Angaben zu den Lagerbedingungen:**

Behälter dicht geschlossen halten.

Vor Hitze und direkter Sonnenbestrahlung schützen.

· **Lagerklasse:**

· **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** Entzündbare Flüssigkeiten

· **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:**

**107-98-2 1-Methoxy-2-propanol**

AGW	Langzeitwert: 370 mg/m <sup>3</sup> , 100 ml/m <sup>3</sup> 2(I);DFG, EU, Y
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**1589-47-5 2-Methoxy-1-propanol**

AGW	Langzeitwert: 19 mg/m <sup>3</sup> , 5 ml/m <sup>3</sup> 2(I);DFG, H, Z
-----	--

· **Bestandteile mit biologischen Grenzwerten:**

**107-98-2 1-Methoxy-2-propanol**

BGW	15 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 1-Methoxypropan-2-ol
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· **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 und der Haut vermeiden.

· **Atemschutz:**

Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.

· **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.

· **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

· **Augenschutz:**



Dichtschließende Schutzbrille

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**

· **Allgemeine Angaben**

· **Aussehen:**

**Form:** Flüssigkeit

**Farbe:** Klar

· **Geruch:** Charakteristisch

· **Geruchsschwelle:** Nicht bestimmt.

· **pH-Wert:** 4-7

· **Zustandsänderung**

**Schmelzpunkt/Gefrierpunkt:** -96,7 °C

**Siedebeginn und Siedebereich:** 120,3 °C

· **Flammpunkt:** 35 °C

· **Entzündbarkeit (fest, gasförmig):** Nicht anwendbar.

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· <b>Zündtemperatur:</b>	270 °C
· <b>Zersetzungstemperatur:</b>	Nicht bestimmt.
· <b>Selbstentzündungstemperatur:</b>	Nicht bestimmt.
· <b>Explosive Eigenschaften:</b>	Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.
· <b>Explosionsgrenzen:</b>	
<b>Untere:</b>	2,3 Vol %
<b>Obere:</b>	~20 Vol %
· <b>Dampfdruck bei 20 °C:</b>	12 hPa
· <b>Dichte bei 20 °C:</b>	3,11 g/cm <sup>3</sup>
· <b>Relative Dichte</b>	Nicht bestimmt.
· <b>Dampfdichte</b>	Nicht bestimmt.
· <b>Verdampfungsgeschwindigkeit</b>	Nicht bestimmt.
· <b>Löslichkeit in / Mischbarkeit mit Wasser:</b>	Vollständig mischbar.
· <b>Verteilungskoeffizient: n-Octanol/Wasser:</b>	Nicht bestimmt.
· <b>Viskosität:</b>	
<b>Dynamisch bei 20 °C:</b>	1,9 mPas
<b>Kinematisch:</b>	Nicht bestimmt.
<b>Organische Lösemittel:</b>	100,0 %
<b>VOC (EU)</b>	100,00 %
· <b>Festkörpergehalt:</b>	0,0 %
· <b>9.2 Sonstige Angaben</b>	Keine weiteren relevanten Informationen verfügbar.

### 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**  
Giftig bei Einatmen.

· <b>Einstufungsrelevante LD/LC50-Werte:</b>		
<b>107-98-2 1-Methoxy-2-propanol</b>		
Oral	LD50	5.660 mg/kg (rat)
Dermal	LD50	13.000 mg/kg (rabbit)

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Inhalativ	LC50/4 h	6 mg/l (rat)
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- **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** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **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**  
Kann Schläfrigkeit und Benommenheit verursachen.
- **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 (Listeneinstufung): 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.

### 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.
- **Empfohlenes Reinigungsmittel:** Wasser, gegebenenfalls mit Zusatz von Reinigungsmitteln.

### ABSCHNITT 14: Angaben zum Transport

- |  |                           |
|--|---------------------------|
| · <b>14.1 UN-Nummer</b>                            |                           |
| · <b>ADR, IMDG, IATA</b>                           | UN3092                    |
| · <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b> |                           |
| · <b>ADR</b>                                       | 3092 1-METHOXY-2-PROPANOL |

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· <b>IMDG, IATA</b>	<b>1-METHOXY-2-PROPANOL</b>
· <b>14.3 Transportgefahrenklassen</b>	
· <b>ADR, IMDG, IATA</b>	
	
· <b>Klasse</b>	3 Entzündbare flüssige Stoffe
· <b>Gefahrzettel</b>	3
· <b>14.4 Verpackungsgruppe</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Umweltgefahren:</b>	Nicht anwendbar.
· <b>14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b>	Achtung: Entzündbare flüssige Stoffe
· <b>Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl):</b>	30
· <b>EMS-Nummer:</b>	F-E,S-D
· <b>Stowage Category</b>	A
· <b>14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b>	Nicht anwendbar.
· <b>Transport/weitere Angaben:</b>	
· <b>ADR</b>	
· <b>Begrenzte Menge (LQ)</b>	5L
· <b>Freigestellte Mengen (EQ)</b>	Code: E1 Höchste Nettomenge je Innenverpackung: 30 ml Höchste Nettomenge je Außenverpackung: 1000 ml
· <b>Beförderungskategorie</b>	3
· <b>Tunnelbeschränkungscode</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3092 1-METHOXY-2-PROPANOL, 3, III

### 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** Der Stoff ist nicht enthalten.
- **Seveso-Kategorie**  
H2 AKUT TOXISCH  
P5c ENTZÜNDBARE FLÜSSIGKEITEN
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 50 t**
- **Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 200 t**

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- **VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII Beschränkungsbedingungen: 3, 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:**

- **Technische Anleitung Luft:**

Klasse	Anteil in %
NK	100,0

- **Wassergefährdungsklasse: WGK 1 (Listeneinstufung): schwach wassergefährdend.**

- **Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen**

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

- **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**

H226 Flüssigkeit und Dampf entzündbar.

H315 Verursacht Hautreizungen.

H318 Verursacht schwere Augenschäden.

H335 Kann die Atemwege reizen.

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Entzündbare Flüssigkeiten – Kategorie 3

Acute Tox. 3: Akute Toxizität – Kategorie 3

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*Skin Irrit. 2: Hautreizende/-ätzende Wirkung – Kategorie 2**Eye Dam. 1: Schwere Augenschädigung/Augenreizung – Kategorie 1**Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2**Repr. 1B: Reproduktionstoxizität – Kategorie 1B**STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3*

DE

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

Stampato il: 26.01.2022

Revisione: 26.01.2022

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** CONDUCTIVE GOLD-PASTE EXTENDER

· **Articolo numero:** 12643

· **Numero CAS:**

107-98-2

· **Numeri CE:**

203-539-1

· **Numero indice:**

603-064-00-3

· **UFI:** FW42-F0F9-N002-4YJN

· **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

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

· **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**



GHS02 fiamma

Flam. Liq. 3 H226 Liquido e vapori infiammabili.



GHS06 teschio e tibie incrociate

Acute Tox. 3 H331 Tossico se inalato.



GHS08 pericolo per la salute

Repr. 1B H360D Può nuocere al feto.

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GHS07

Eye Irrit. 2 H319 Provoca grave irritazione oculare.  
STOT SE 3 H336 Può provocare sonnolenza o vertigini.

· **2.2 Elementi dell'etichetta**

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

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

· **Pittogrammi di pericolo**



GHS02 GHS06 GHS08

· **Avvertenza Pericolo**

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

1-metossi-2-propanolo

2-metossipropanolo

· **Indicazioni di pericolo**

H226 Liquido e vapori infiammabili.

H331 Tossico se inalato.

H319 Provoca grave irritazione oculare.

H360D Può nuocere al feto.

H336 Può provocare sonnolenza o vertigini.

· **Consigli di prudenza**

P210 Tenere lontano da fonti di calore, superfici riscaldate, scintille, fiamme e altre fonti di innesco. Vietato fumare.

P241 Utilizzare impianti [elettrici/di ventilazione/d'illuminazione] a prova di esplosione.

P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle [o fare una doccia].

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.

P405 Conservare sotto chiave.

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**

· **3.1 Caratteristiche chimiche: Sostanze**

· **Numero CAS**

107-98-2 1-metossi-2-propanolo

· **Numeroli di identificazione**

· **Numeri CE:** 203-539-1

· **Numero indice:** 603-064-00-3

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**· Sostanze pericolose:**

CAS: 1589-47-5	2-metossipropanolo	≤2,5%
EINECS: 216-455-5	⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360D; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	

### SEZIONE 4: Misure di primo soccorso

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

**· Indicazioni generali:**

Allontanare immediatamente gli abiti contaminati dal prodotto.

Levarsi la maschera protettiva solamente dopo aver tolto gli abiti contaminati.

In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.

**· Inalazione:**

Portare il soggetto in zona ben areata o somministrare ossigeno; chiedere l'intervento di un medico.

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:**

CO<sub>2</sub>, polvere o acqua nebulizzata. Estinguere gli incendi di grosse dimensioni con acqua nebulizzata o con schiuma resistente all'alcool.

**· 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:** Indossare il respiratore.

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

**· 6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza**

Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.

**· 6.2 Precauzioni ambientali:**

Diluire abbondantemente con acqua.

Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.

**· 6.3 Metodi e materiali per il contenimento e per la bonifica:**

Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).

Smaltimento del materiale contaminato conformemente al punto 13.

Provvedere ad una sufficiente areazione.

**· 6.4 Riferimento ad altre sezioni**

Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.

Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.

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Per informazioni relative allo smaltimento vedere Capitolo 13.

### SEZIONE 7: Manipolazione e immagazzinamento

- **7.1 Precauzioni per la manipolazione sicura**  
Accurata ventilazione/aspirazione nei luoghi di lavoro.  
Aprire e manipolare i recipienti con cautela.  
Evitare la formazione di aerosol.
- **Indicazioni in caso di incendio ed esplosione:**  
Tenere lontano da fonti di calore, non fumare.  
Proteggere dal calore.  
Adottare provvedimenti contro cariche elettrostatiche.  
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.
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**

#### 107-98-2 1-metossi-2-propanolo

TWA	Valore a breve termine: 553 mg/m <sup>3</sup> , 150 ppm Valore a lungo termine: 369 mg/m <sup>3</sup> , 100 ppm
VL	Valore a breve termine: 568 mg/m <sup>3</sup> , 150 ppm Valore a lungo termine: 375 mg/m <sup>3</sup> , 100 ppm Pelle

- **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 e la pelle.
- **Maschera protettiva:**  
Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.
- **Guanti protettivi:**



Guanti protettivi

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*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.*

· **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:** Liquido

**Colore:** Chiaro

· **Odore:** Caratteristico

· **Soglia olfattiva:** Non definito.

· **valori di pH:** 4-7

· **Cambiamento di stato**

**Punto di fusione/punto di congelamento:** -96,7 °C

**Punto di ebollizione iniziale e intervallo di ebollizione:** 120,3 °C

· **Punto di infiammabilità:** 35 °C

· **Infiammabilità (solidi, gas):** Non applicabile.

· **Temperatura di accensione:** 270 °C

· **Temperatura di decomposizione:** Non definito.

· **Temperatura di autoaccensione:** Non definito.

· **Proprietà esplosive:** Prodotto non è esplosivo, è tuttavia possibile la formazione di miscele di vapori/aria esplosive.

· **Limiti di infiammabilità:**

**Inferiore:** 2,3 Vol %

**Superiore:** ~20 Vol %

· **Tensione di vapore a 20 °C:** 12 hPa

· **Densità a 20 °C:** 3,11 g/cm<sup>3</sup>

· **Densità relativa:** Non definito.

· **Densità di vapore:** Non definito.

· **Velocità di evaporazione:** Non definito.

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- |  |  |
|--|--|
| · <b>Solubilità in/Miscibilità con acqua:</b>            | Completamente miscibile.                 |
| · <b>Coefficiente di ripartizione: n-ottanolo/acqua:</b> | Non definito.                            |
| · <b>Viscosità:</b>                                      |  |
| <b>Dinamica a 20 °C:</b>                                 | 1,9 mPas                                 |
| <b>Cinematica:</b>                                       | Non definito.                            |
| <b>Solventi organici:</b>                                | 100,0 %                                  |
| <b>VOC (CE)</b>  | 100,00 %                                 |
| <b>Contenuto solido:</b>                                 | 0,0 %                                    |
| · <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**  
Tossico se inalato.

- **Valori LD/LC50 rilevanti per la classificazione:**

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Orale	LD50	5.660 mg/kg (rat)
Cutaneo	LD50	13.000 mg/kg (rabbit)
Per inalazione	LC50/4 h	6 mg/l (rat)

- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Provoca grave irritazione oculare.
- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **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**  
Può provocare sonnolenza o vertigini.

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- **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) (Classif. secondo le liste): 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.
- **Detergente consigliato:** Acqua eventualmente con l'aggiunta di detersivi.

### SEZIONE 14: Informazioni sul trasporto

- |   |                            |
|---|----------------------------|
| · <b>14.1 Numero ONU</b>  |                            |
| · <b>ADR, IMDG, IATA</b>  | UN3092                     |
| · <b>14.2 Nome di spedizione dell'ONU</b>   |                            |
| · <b>ADR</b>  | 3092 1-METOSSI-2-PROPANOLO |
| · <b>IMDG, IATA</b>   | 1-METHOXY-2-PROPANOL       |
| · <b>14.3 Classi di pericolo connesso al trasporto</b>                              |                            |
| · <b>ADR, IMDG, IATA</b>  |                            |
|  |                            |
| · <b>Classe</b>   | 3 Liquidi infiammabili     |
| · <b>Etichetta</b>  | 3                          |
| · <b>14.4 Gruppo di imballaggio</b>   |                            |
| · <b>ADR, IMDG, IATA</b>  | III                        |
| · <b>14.5 Pericoli per l'ambiente:</b>  | Non applicabile.           |

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<ul style="list-style-type: none"> <li>· <b>14.6 Precauzioni speciali per gli utilizzatori</b>      <i>Attenzione: Liquidi infiammabili</i></li> <li>· <b>N° identificazione pericolo (Numero Kemler):</b>      30</li> <li>· <b>Numero EMS:</b>      F-E,S-D</li> <li>· <b>Stowage Category</b>      A</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC</b>      <i>Non applicabile.</i></li> </ul>
<ul style="list-style-type: none"> <li>· <b>Trasporto/ulteriori indicazioni:</b></li> </ul>
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Quantità limitate (LQ)</b>      5L</li> <li>· <b>Quantità esenti (EQ)</b>      <i>Codice: E1</i> <i>Quantità massima netta per imballaggio interno: 30 ml</i> <i>Quantità massima netta per imballaggio esterno: 1000 ml</i></li> <li>· <b>Categoria di trasporto</b>      3</li> <li>· <b>Codice di restrizione in galleria</b>      D/E</li> </ul>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b>      5L</li> <li>· <b>Excepted quantities (EQ)</b>      <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i></li> </ul>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b>      UN 3092 1-METOSI-2-PROPANOLO, 3, III</li> </ul>

### 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** *La sostanza non è contenuta*
- **Categoria Seveso**  
*H2 TOSSICITÀ ACUTA*  
*P5c LIQUIDI INFIAMMABILI*
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 50 t**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 200 t**
- **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** *Restrizioni: 3, 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.*

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· **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:**

· **Istruzione tecnica aria:**

Classe	quota in %
NC	100,0

· **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.

· **Fraasi rilevanti**

H226 Liquido e vapori infiammabili.

H315 Provoca irritazione cutanea.

H318 Provoca gravi lesioni oculari.

H335 Può irritare le vie respiratorie.

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Liquidi infiammabili – Categoria 3

Acute Tox. 3: Tossicità acuta – Categoria 3

Skin Irrit. 2: Corrosione/irritazione della pelle – Categoria 2

Eye Dam. 1: Gravi lesioni oculari/irritazione oculare – Categoria 1

Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2

Repr. 1B: Tossicità per la riproduzione – Categoria 1B

STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3

# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.26

バージョン番号: 1

改訂日: 2022.01.26

### 項目 1: 化学品及び会社情報

- ・ 製品識別子
- ・ 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER
- ・ 製品コード 12643
- ・ ~~番号~~番号番号  
107-98-2
- ・ ~~番号~~番号番号  
203-539-1
- ・ ~~番号~~番号番号  
603-064-00-3
- ・ 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~~危険~~分類分類



火炎

引火性液体 区分3

H226 引火性液体及び蒸気



頭蓋骨と大たい骨

急性毒性(吸入) 区分3

H331 吸入すると有毒



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

特定標的臓器有害性(単回暴露) 区分3 H336 眠気又はめまいのおそれ

(2ページに続く)

# 安全データシート

## JIS Z 7253:2019 による

印刷日: 2022.01.26

バージョン番号: 1

改訂日: 2022.01.26

### 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER

(1ページの続き)

・ 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

本化学物質は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



GHS02 GHS06 GHS08

・ 注意喚起語 危険

・ 危険と定められた成分をラベル表示:

プロピレングリコ-ルモノメチルエ-テル

2-methoxypropanol

・ 危険有害性情報

引火性液体及び蒸気

吸入すると有毒

強い眼刺激

生殖能又は胎児への悪影響のおそれ

眠気又はめまいのおそれ

・ 注意書き

熱/火花/裸火/高温のもののような着火源から遠ざけること。 - 禁煙。

防爆型の電気機器 / 換気装置 / 照明機器 / 機器を使用すること。

皮膚 (または髪) に付着した場合: 直ちに汚染された衣類をすべて脱ぐこと。皮膚を流水 / シャワーで洗うこと。

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。

施錠して保管すること。

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: 化学物質

・ 化学名又は一般名

107-98-2 プロピレングリコ-ルモノメチルエ-テル

・ 化学物質を特定できる一般的な番号

番号番号番号-539-1

番号番号番号-064-00-3

・ 危険な含有成分:

1589-47-5	2-methoxypropanol	⚠ 引火性液体 区分3, H226; ⚠ 生殖毒性 区分1B, H360; ⚠ 重篤な眼の損傷性/眼刺激性 区分1, H318; ⚠ 皮膚腐食性/刺激性 区分2, H315; 特定標的臓器有害性(単回暴露) 区分3, H335	≤2.5%
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JP

(3ページに続く)

# 安全データシート

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### 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER

(2ページの続き)

#### 項目 4: 応急措置

##### ・ 応急手当処置に関する説明

##### ・ 一般情報:

- プロダクトの付着した衣類は速やかに脱ぐこと
- 呼吸防護マスクは汚染衣服を脱いだ後にはずすこと
- 呼吸が不規則な場合あるいは呼吸停止の際には人工呼吸器を使用のこと

##### ・ 吸入した場合

- 外気もしくは酸素を送り込む、医者への助けを借りる
- 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

##### ・ 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

- CO<sub>2</sub>, 消火粉末剤あるいは水放射。火が大きい場合には水放射もしくは耐アルコール性泡を使用

##### ・ 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: 呼吸保護マスクを着用

#### 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 防護服を着用。防護服を着用していない人は近づけない

##### ・ 環境に対する注意事項

- 大量の水で薄める
- 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

- 液体吸収材 (砂、珪藻土、酸結合剤、ユニバーサル結合剤、おがくず) で吸収する
- 13 項に下がい汚染材は廃棄物として処理する
- 十分な換気を心がける

##### ・ 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

- 作業場では十分な換気、埃を吸い取るよう心がける
- 容器は十分に注意しながら開封し、取り扱う
- エアゾールの発生を防ぐ

##### ・ 火災および爆発防止に関する注意事項:

- 発火元は遠ざける。禁煙
- 高温から保護する
- 静電荷を防ぐ措置をほどこす

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# 安全データシート

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### 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER

(3ページの続き)

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:** 削除
- ・ **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  
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、また皮膚に接触しないよう注意する
- ・ **呼吸保護器具:**  
短時間もしくは負担が小さい場合には呼吸フィルター付装置を、集中的にあるいは長時間触れる場合には、酸素ボンベ付き呼吸保護装置を使用すること
- ・ **手の保護:**



保護手袋

- 手袋の材質は物質/材料/調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
- ・ **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

- ・ **基本的な物理及び化学特性に関する情報**
- ・ **一般指示事項**
- ・ **物理状態** 液状

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# 安全データシート

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(4ページの続き)

<ul style="list-style-type: none"> <li>色</li> </ul>	透明
臭い臭い臭い	特徴的
<ul style="list-style-type: none"> <li>嗅覚閾値</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>融点 / 凝固点 (混合物の場合は,記載省略可)</li> </ul>	-96.7 °C
<ul style="list-style-type: none"> <li>沸点</li> <li>沸点沸点初置点及び沸点範囲</li> </ul>	120.3 °C
<ul style="list-style-type: none"> <li>可燃</li> <li>可燃性燃</li> </ul>	情報なし
<ul style="list-style-type: none"> <li>爆発</li> <li>爆発爆発限界及び爆発上限下限</li> </ul>	
<ul style="list-style-type: none"> <li>下限:</li> </ul>	2.3 Vol %
<ul style="list-style-type: none"> <li>上限:</li> </ul>	~20 Vol %
<ul style="list-style-type: none"> <li>引火点</li> </ul>	35 °C
<ul style="list-style-type: none"> <li>自然発燃</li> <li>自然発燃</li> <li>自然発燃</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>解盤解温</li> <li>解盤解温</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>pH</li> </ul>	4-7
<ul style="list-style-type: none"> <li>粘性:</li> </ul>	
<ul style="list-style-type: none"> <li>動粘性率</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>学内学的約0 °C:</li> </ul>	1.9 mPas
<ul style="list-style-type: none"> <li>溶解</li> <li>溶解度解混合物の場合は,記載省略可)</li> </ul>	
<ul style="list-style-type: none"> <li>水:</li> </ul>	完全に混合できる
<ul style="list-style-type: none"> <li>分配係数 (log 値) (混合物の場合は,記載省略可)</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>蒸気圧 約 20 °C</li> </ul>	12 hPa
<ul style="list-style-type: none"> <li>密度及び又は又は相対密度</li> </ul>	
<ul style="list-style-type: none"> <li>密度 約 20 °C:</li> </ul>	3.11 g/cm <sup>3</sup>
<ul style="list-style-type: none"> <li>対</li> <li>対</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>蒸気密度</li> </ul>	決まっていない.
<ul style="list-style-type: none"> <li>その他のデータ</li> </ul>	
<ul style="list-style-type: none"> <li>外観</li> <li>外観</li> <li>外観</li> </ul>	
<ul style="list-style-type: none"> <li>形:</li> </ul>	液体
<ul style="list-style-type: none"> <li>健康</li> <li>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> </ul>	
<ul style="list-style-type: none"> <li>発火</li> <li>発火温度:</li> </ul>	270 °C
<ul style="list-style-type: none"> <li>爆発の危険:</li> </ul>	プロダクトは爆発する危険はない。ただし爆発する危険のある蒸気と空気の混合物を形成する可能性はある
<ul style="list-style-type: none"> <li>有機</li> <li>有機</li> </ul>	100.0 %
<ul style="list-style-type: none"> <li>固形物含有量:</li> </ul>	0.0 %
<ul style="list-style-type: none"> <li>状態の変化</li> </ul>	
<ul style="list-style-type: none"> <li>気化速度</li> </ul>	決まっていない.

### 項目 10: 安定性及び反応性

応度応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

避け避け避け条件 追加的な関連情報は得られていません。

混触危険物 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

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# 安全データシート

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### 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER

(7ページの続き)

**物質物質物質**

内容成分はリストアップされていない

**既存既存既存物質安全性点検結果 ( 姓解養積養積養積性 )**

107-98-2 プロピレングリコ-ルモノメチルエ-テル

**既存既存既存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**

内容成分はリストアップされていない

**・毒物及初劇物取締法:劇物**

内容成分はリストアップされていない

**・毒物及初劇物取締法: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

**・毒物及初劇物取締法:劇毒物毒物**

内容成分はリストアップされていない

**・毒物及初劇物取締法:特定毒物**

内容成分はリストアップされていない

**労働労働労働衛生法**

**・危険物**

**・爆発性の物 ( 施錠表別表第 1 号 ) 号 )**

内容成分はリストアップされていない

**・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

**可燃種燃性燃燐燐 ( 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

**第二第二類物質**

内容成分はリストアップされていない

**第三第三類物質**

内容成分はリストアップされていない

**・名称通知通知有害物 ( 別表第 9 )**

496

**・製造誘質物質物質**

内容成分はリストアップされていない

**鉛中鉛中毒規規則規施錠表別表第 表 )**

内容成分はリストアップされていない

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# 安全データシート

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### 化学品の名称 CONDUCTIVE GOLD-PASTE EXTENDER

(9ページの続き)

#### 注意書き

- 熱/火花/裸火/高温のもののような着火源から遠ざけること。 - 禁煙。
- 防爆型の電気機器 / 換気装置 / 照明機器 / 機器を使用すること。
- 皮膚 (または髪) に付着した場合: 直ちに汚染された衣類をすべて脱ぐこと。皮膚を流水 / シャワーで洗うこと。
- 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。
- 施錠して保管すること。
- 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
- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- 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
- 引火性液体 区分3: Flammable liquids – Category 3
- 急性毒性(吸入) 区分3: Acute toxicity – Category 3
- 皮膚腐食性/刺激性 区分2: Skin corrosion/irritation – Category 2
- 重篤な眼の損傷性/眼刺激性 区分1: Serious eye damage/eye irritation – Category 1
- 重篤な眼の損傷性/眼刺激性 区分2A: Serious eye damage/eye irritation – Category 2A
- 生殖毒性 区分1B: Reproductive toxicity – Category 1B
- 特定標的臓器有害性(単回暴露) 区分3: Specific target organ toxicity (single exposure) – Category 3

JP

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.01.26

개정: 2022.01.26

## 1 화학제품과 회사에 관한 정보

### 제품제품제명

· **제품명:** CONDUCTIVE GOLD-PASTE EXTENDER

· **상품번호:** 12643

· **번호번호번호**

107-98-2

· **EC 의번호:**

203-539-1

### 색인색인번호:

603-064-00-3

### 해당 해당 제품 집이나 혼합물 관련 권위용도 및 사용금지용도

· **제품의 권고 용도와 사용 생략 제한** CONDUCTIVE GOLD-PASTE EXTENDER

· **제품의 권고 용도와 사용 생략 제한** 시험실 화학품

· **안전데이터표(Safety Data Sheet)내 공급업체 권위용도 및 사용금지용도**

· **제조자/수입자/유통업체 정보**

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

Samchang Commercial Co., Ltd.

Yeo Eui Do

PO Box 1110

Seoul, Korea

Tel: 82 2 703 3040

Fax: 82 2 717 3298

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Daedok Science, Co. Ltd.

34141 E10 Korea Advanced Institute of Science

Guseong-Dong, Yuseong-gu, Daejeon,

Korea

Phone: 82 42 710 2091

Fax: 82 42 367 0005

Website: www.labsmro.com

· **추가적인 정보** 화학제품 취급 가능 duct safety department

· **비상연락 전화번호:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## 2 유해성·위험성

· **순물질 또는 혼합물 분류** 분류



화염

인화성 액체 - 구분3

H226 인화성 액체 및 증기



두개골과 대퇴골

급성 독성 - 흡입 - 구분3

H331 흡입하면 유독함

(2 쪽에 계속)



# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2022.01.26

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### 제품명: CONDUCTIVE GOLD-PASTE EXTENDER

(1 쪽부터계속)



건강에 위험

생식독성 - 구분1B

H360 태아 또는 생식능력에 손상을 일으킬 수 있음



심한 눈 손상성/눈 자극성 - 구분 2 H319 눈에 심한 자극을 일으킴

특정표적장기 독성 - 1회 노출 - 구분3 H336 졸음 또는 현기증을 일으킬 수 있음

· 라벨표가 요소요소

· 라벨표가 요소요소

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· GHS 그림문자



GHS02 GHS06 GHS08

· 신호어 위험

· 상표상에명확히위험성이표시된성분:

1-methoxy-2-propanol

2-methoxypropanol

유해유해유해문구

인화성 액체 및 증기

흡입하면 유독함

눈에 심한 자극을 일으킴

태아 또는 생식능력에 손상을 일으킬 수 있음

졸음 또는 현기증을 일으킬 수 있음

· 예방조치문구

열·스파크·화염·고열로부터 멀리하십시오 - 금연

폭발 방지용 전기·환기·조명·장비를 사용하십시오.

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

· 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.

· 밀봉하여 저장하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

기타기타유해성

· PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성) 물질이 포함되어 있지 않음

· PBT(잔류성, 생물농축성, 독성물질) 물질이 포함되어 있지 않음

· vPvB(고 잔류성, 고 생물농축성) 물질이 포함되어 있지 않음

### 3 구성성분의 명칭 및 함유량

· 화학적 특성: 화학물질

· CAS-번호표시

107-98-2 1-methoxy-2-propanol

식별식별번호

· EC 의번호: 203-539-1

(3 쪽에계속)



# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.01.26

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(3 쪽부터계속)

## 7 취급 및 저장방법

취급 취급 취급

안전안전안전을 위한 예방 조치

- 작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.
- 조심스럽게 용기를 개봉하거나 취급한다.
- 연무질이 형성되는 것을 피한다.

화재 화재 화재를 예방하고 예방 대책에 관한 정보

- 발화 요소는 멀리 둔다. 금연.
- 열로부터 보호한다.
- 정전기의 충전으로부터 보호한다.
- 호흡보호장비를 항상 비치한다.

· 혼합 위험성 및 안정성 조건

보관 보관 보관

- 안전장 저장 방법 특별한 요구사항이 없음.
- 하중을 공중 보관 시기에 대한 보관 방법 정보 없음
- 보관 조건에 관한 추가 정보 정보  
· 용기를 새지 않게 밀폐한 채 보관한다.  
· 열이나 직사광선으로부터 보호한다.
- 구체적 최종 사용자 추가적인 정보가 존재하지 않습니다.

## 8 노출방지 및 개인보호구

- 첨단시설 디자인에 대한 추가 정보: 더 이상 의 자료는 없음. 항 목 7 을 참고하시 오.

통제 통제 통제 변수

· 화학물질의 노출기준, 생물학적 노출기준 등:

107-98-2 1-methoxy-2-propanol

OELV (KR)	단기간의 값: 150 ppm 장기간의 값: 100 ppm
IOELV (EU)	단기간의 값: 568 mg/m <sup>3</sup> , 150 ppm 장기간의 값: 375 mg/m <sup>3</sup> , 100 ppm Skin
REL (US)	단기간의 값: 540 mg/m <sup>3</sup> , 150 ppm 장기간의 값: 360 mg/m <sup>3</sup> , 100 ppm
TLV (US)	단기간의 값: 100 ppm 장기간의 값: 50 ppm A4

- 추가 정보 정보 조 할 당시에 유효 한 목 록을 기초로 사용했다.

노출 통제 통제 통제

개인 개인 개인 보호구

· 일반적 보호 조치 및 위생 조치:

- 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전이나 작업이 끝날 때 마다 손을 씻는다.
- 방호복은 따로 보관한다.
- 눈과 피부와의 접촉은 피한다.

· 호흡기 보호 보호

- 단 시간 또는 경미한 오염의 경우에는 호흡 여과기를 사용한다. 심각한 또는 장기간 노출 시에는 호흡보호장비를 사용한다.

(5 쪽에 계속)

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.01.26

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## 제품명: CONDUCTIVE GOLD-PASTE EXTENDER

(4 쪽부터계속)

### 보충 보호보호



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.  
테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다.  
투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

### 장갑의재료

적합한장갑의선택은재질차이뿐아니라품질기준의차이도고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

장갑 재료의 투과 시간 정확한 관통 시간은 보호 장갑 제조자에 의하여 인지되고, 준수되어야 한다.

### 보충 보호보호



확조이는보안경

## 9 물리화학적 특성

기본 물리화학적 특성에 대한 정보

### 일반정보

외형외형외형

물리상태상태

액체

색:

밝은

냄새냄새냄새

특색있는

후각역치

알맞지않다.

pH:

4-7

### 상태변화

녹는점/어는점:

-96.7 °C

초기초기끓는점과 끓는점범위범위

120.3 °C

인화점:

35 °C

인화성고체고체기체

해당사항 없음.

점화온도:

270 °C

분해온도온도

알맞지않다.

자기점화:

알맞지않다.

폭발위험:

이제품은폭발위험성이없지만, 폭발가능성이있는증기화합물/공기화합물의형성가능성이있다.

인화 인화 인화 폭발 위험성 상한선 하한

아래로:

2.3 Vol %

위로위로위로

~20 Vol %

증기압 의경우 20 °C:

12 hPa

밀도밀도 밀도경우 20 °C:

3.11 g/cm<sup>3</sup>

비중비중비중

알맞지않다.

증기밀도:

알맞지않다.

(6 쪽에계속)



# 물질안전보건자료 GHS에 따라 라다

인쇄일자: 2022.01.26

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## 제품명: CONDUCTIVE GOLD-PASTE EXTENDER


(6 쪽부터 계속)

- 토양내 이동성 추가적인 정보가 존재하지 않습니다.
  - 추가적인 생태학 정보 정보
- 일반 열전도성 특징
- 수질오염등급 1 (목록분류): 약하게 수질오염이 된 희석시키지 않은 채 대량으로 지하수나, 하천으로 그리고 하수도망에도 도달하지 않게 한다.
  - PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성, 독성물질)에 해당하지 않음.
  - PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성, 독성물질)에 해당하지 않음.
  - 기타 기타 부속용 추가적인 정보가 존재하지 않습니다.

## 13 폐기시 주의사항

- 폐기물 처리 방법: 권고 권고 환경 쓰레기 처리와 함께 처리되어서는 안 된다. 하수도망으로 유입되어서는 안 된다.
- 비위생적 포장 포장: 권고 권고 바닥의 지침에 입각한 쓰레기 처리.
- 추천 세정제: 경우에 따라서 세제가 첨가된 물

## 14 운송에 필요한 정보

유엔 유엔 위험 번호 · ADR, IMDG, IATA	UN3092
적정적정 정정명 · ADR · IMDG, IATA	3092 1-METHOXY-2-PROPANOL 1-METHOXY-2-PROPANOL
교통 교통 위험 위험 클래스 · ADR, IMDG, IATA	
	
등급 등급 등급 · 위험 위험 라벨 라벨	3 발화성 용액 3
· 용기 등급 · ADR, IMDG, IATA	III
· 환경적 유해물질:	해당 사항 없음.
· 이동 시 특별 예방 조치 위험 위험 위험 코드	경고: 발화성 용액 30
· E 번호 번호 번호 · Stowage Category	F-E, S-D A
· MARPOL 73/78 (선박으로부터의 해양 오염 방지 협약) 부속서 2 및 IBC Code (국제 선적 화물 코드)에 따라 벌크 벌크 운송 운송	해당 사항 없음.

(8 쪽에 계속)

# 물질안전보건자료

## GHS에 따라 라다

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**제품명: CONDUCTIVE GOLD-PASTE EXTENDER**

(7 쪽부터 계속)

<b>· 운송/추가정보</b>	
· ADR 한정수량(수량 수량) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
운송분류구분 터널제한코드	3 D/E
<b>· IMDG</b>	
· Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>· UN번호</b>	
UN 3092 1-METHOXY-2-PROPANOL, 3, III	

### 15 법적 규제 현황

<b>· 산업안전보건법에 의한 규제</b>		
<b>제조제조금지물질:</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 허가대상물질:</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 관리대상유해물질:</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 작업환경측정 대상 유해인자</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 특수건강 점검 대상 유해인자</b>		
어떠한내용물도 목록화 되어있지 않다		
해당 해당 물질 또는 혼합물에 대한 안전보건자료 작성 의무를 포함적인 정보가 존재하지 않습니다.		
<b>· Korean Existing Chemical Inventory</b>		
107-98-2	1-methoxy-2-propanol	KE-23379
1589-47-5	2-methoxypropanol	KE-23378
<b>· 화학물질관리법</b>		
<b>· 사고대비물질</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 금지물질</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 제한물질</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 유독물질</b>		
어떠한내용물도 목록화 되어있지 않다		
<b>· 허가물질</b>		
어떠한내용물도 목록화 되어있지 않다		

(9 쪽에 계속)

# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2022.01.26

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**제품명: CONDUCTIVE GOLD-PASTE EXTENDER**

(8 쪽부터계속)

· 위험물안전관리법 (위험물 및 지정수량) 제 4: 2,000 리터

**등록/등록번호/또는 선제대상 화학물질**

어떠한내용물도목록화되어있지않다

· ‘21년까지 등록하여야 할 압, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질

어떠한내용물도목록화되어있지않다

· 중점관리물 **질병** 지정지정

· **표1 중점관리물질(제한관련관련)**

어떠한내용물도목록화되어있지않다

· **표2 중점관리물질(제한관련관련)**

어떠한내용물도목록화되어있지않다

· **라벨 라벨과별 요소**

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· GHS 그림문자



GHS02   GHS06   GHS08

· 신호어 위험

· **상표상에명확히위험성이표시된성분:**

1-methoxy-2-propanol

2-methoxypropanol

**유해/유해위험문구**

인화성 액체 및 증기

흡입하면 유독함

눈에 심한 자극을 일으킴

태아 또는 생식능력에 손상을 일으킬 수 있음

줄음 또는 현기증을 일으킬 수 있음

· **예방조치문구**

열·스파크·화염·고열로부터 멀리하십시오 - 금연

폭발 방지용 전기·환기·조명·장비를 사용하십시오.

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

· 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.

· 밀봉 하여 저장 하시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기 하시오.

· **화학물질 안전성 평가평가** 화학물질 안전성 평가가 수행되지 않음

### 16 그 밖의 참고사항

이보고는우리지식에대한 오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

당첨당자당자

최초최초 **개정일자:** 2022.01.26

개정개정 **개정일자:** 1 / 2022.01.26

· **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

(10 쪽에계속)



# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2022.01.26

개정: 2022.01.26

**제품명: CONDUCTIVE GOLD-PASTE EXTENDER**

(9 쪽부터계속)

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)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

KR

# Helaiian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.01.2022

Disemak semula pada 26.01.2022

## 1 Pengenalan bahan kimia berbahaya dan pembekal

- **Pengenal pasti produk**
- **Nama dagang:** CONDUCTIVE GOLD-PASTE EXTENDER
- **Nombor artikel:** 12643
- **Nombor CAS:**  
107-98-2
- **Nombor EC:**  
203-539-1
- **Nombor EU:**  
603-064-00-3
- **Kegunaan yang disarankan bagi bahan dan sekatan penggunaan** Tiada 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**



Nyalaan

Cec. M. Bkr 3 H226 Cecair dan wap mudah terbakar.



Tengkorak dan tulang bersilang

Toks. Akut 3 H331 Toksik jika tertedut.



Bahaya kesihatan

Pemb. 1B H360 Boleh merosakkan kesuburan atau janin.



Kreng. Mata 2 H319 Menyebabkan kerengsaan mata yang serius.

STOT SE 3 H336 Boleh menyebabkan mengantuk atau kepening.

- **Melabelkan unsur**

- **Unsur label GHS** Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmoni Global (GHS).

(Bersambung ke halaman 2)

# Helaiian Data Keselamatan

## menurut P.U.(A) 310/2013

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**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 1)

· **Piktogram bahaya**



GHS02    GHS06    GHS08

· **Kata isyarat Bahaya**

· **Komponen pelabelan yang menentukan bahaya:**

monopropilena glikol metil eter  
2-methoxypropanol

· **Pernyataan Bahaya**

Cecair dan wap mudah terbakar.  
Toksik jika tertedut.

Menyebabkan kerengsaan mata yang serius.

Boleh merosakkan kesuburan atau janin.

Boleh menyebabkan mengantuk atau kepeningan.

· **Pernyataan Berjaga-jaga**

Jauhkan daripada haba/percikan api/nyalaan terbuka/permukaan panas – Dilarang merokok.

Gunakan kelengkapan elektrik/pengalihudaraan/pencahayaan yang tahan letupan.

**JIKA TERKENA KULIT** (atau rambut): Segera tanggalkan/buka semua pakaian yang tercemar. Basuh kulit dengan air/pancuran air.

**JIKA TERKENA MATA:** Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.

Simpan di tempat berkunci.

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: Bahan**

· **Keterangan No. CAS**

107-98-2 monopropilena glikol metil eter

· **Nombor pengenaltastian**

· **Nombor EC:** 203-539-1

· **Nombor EU:** 603-064-00-3

· **Komponen berbahaya :**

1589-47-5	2-methoxypropanol	≤2.5%
	Cec. M. Bkr 3, H226;  Pemb. 1B, H360;  Kros. Mata 1, H318;  Kreng. Kulit 2, H315; STOT SE 3, H335	

### 4 Langkah-langkah pertolongan cemas

· **Keterangan langkah pertolongan cemas**

· **Maklumat am:**

Segera tanggalkan mana-mana pakaian yang terkena produk.

Tanggalkan kelengkapan pernafasan hanya selepas pakaian yang tercemar telah ditanggalkan semuanya.

Berikan pernafasan bantuan jika pernafasan tidak tetap atau terhenti.

(Bersambung ke halaman 3)

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 2)

- **Jika tersedut:**  
Berikan udara bersih atau oksigen, dapatkan rawatan doktor.  
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.
- **Arahan bagi apa-apa rawatan perubatan dan rawatan khas yang diperlukan**  
Tiada maklumat lanjut yang diperoleh.

### 5 Langkah-langkah pemadaman kebakaran

- **Bahan pemadam api**
- **Agen pemadam yang sesuai:**  
CO<sub>2</sub>, serbuk atau semburan air. Padam kebakaran besar dengan semburan air atau busa rintangan alkohol.
- **Bahaya khusus yang timbul daripada bahan atau campuran** Tiada maklumat lanjut yang diperoleh.
- **Panduan kepada pemadam kebakaran**
- **Kelengkapan perlindungan:** Peralatan perlindungan pernafasan mulut.

### 6 Langkah-langkah pelepasan tidak sengaja

- **Langkah perlindungan diri, kelengkapan pelindung dan prosedur kecemasan**  
Pakai kelengkapan perlindungan. Jauhkan mereka yang tidak dilindung dari kawasan tercemar.
- **Langkah perlindungan alam sekitar:**  
Cairkan dengan air yang banyak.  
Jangan biarkannya memasuki pembentung/air permukaan atau tanah.
- **Kaedah dan bahan untuk pembendungan dan pembersihan:**  
Serap dengan bahan cecair pengikat (pasir, diatomit, pengikat asid, pengikat semesta, habuk papan)  
Lupuskan bahan tercemar sebagai sisa mengikut perkara 13.  
Pastikan pengalihudaraan mencukupi.
- **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**  
Pastikan pengalihudaraan/ekzos yang mencukupi di tempat kerja.  
Buka dan kendalikan bekas dengan cermat.  
Elakkan pembentukan aerosol.
- **Maklumat kebakaran dan perlindungan daripada letupan:**  
Jauhkan dari punca pencucuhan - Dilarang merokok.  
Lindungi daripada haba.  
Lindungi daripada cas-cas elektrostatik.  
Pastikan alat perlindungan pernafasan sentiasa ada.

(Bersambung ke halaman 4)

## Helaian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 3)

- **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 diperolehi.

### 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:**

**107-98-2 monopropilena glikol metil eter**

PEL Nilai jangka panjang: 369 mg/m<sup>3</sup>, 100 ppm

- **Maklumat tambahan:** Senarai yang sah semasa pembuatan digunakan sebagai asas.
- **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 dan kulit.
- **Perlindungan pernafasan:**  
Jika berlaku pendedahan sekejap atau sedikit pencemaran, gunakan alat penapis pernafasan. Jika berlaku pendedahan yang intensif atau berpanjangan, gunakan alat pernafasan perlindungan serba lengkap.
- **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 pengeluaran dengan pengeluaran yang lain.

· **Jangka masa penyerapan bahan sarung tangan**

Waktu kemunculan yang tepat hendaklah diperolehi pengeluaran sarung tangan pelindung dan hendaklah dipatuhi.

(Bersambung ke halaman 5)

# Helaiian Data Keselamatan

## menurut P.U.(A) 310/2013

Tarikh cetak 26.01.2022

Disemak semula pada 26.01.2022

**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 4)

· **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>	Cecair
· <b>Warna:</b>	Jernih
· <b>Bau:</b>	Ciri
· <b>Ambang bau</b>	Tidak ditentukan.
· <b>Nilai pH:</b>	4-7
· <b>Perubahan pada keadaan</b>	
· <b>Takat lebur/takat beku</b>	-96.7 °C
· <b>Takat didih awal dan julat didih</b>	120.3 °C
· <b>Takat kilat:</b>	35 °C
· <b>Kemudahbakaran (pepejal, gas)</b>	Tidak berkenaan
· <b>Suhu pencucuhan:</b>	270 °C
· <b>Suhu penguraian:</b>	Tidak ditentukan.
· <b>Suhu pengautocucuhan</b>	Tidak ditentukan.
· <b>Bahaya letupan:</b>	Produk tidak mudah meletup. Walau bagaimanapun, pembentukan campuran udara/wap mungkin berlaku.
· <b>Had letupan :</b>	
· <b>Bawah:</b>	2.3 Vol %
· <b>Atas:</b>	~20 Vol %
· <b>Tekanan wap pada 20 °C:</b>	12 hPa
· <b>Ketumpatan pada 20 °C:</b>	3.11 g/cm <sup>3</sup>
· <b>Ketumpatan bandingan</b>	Tidak ditentukan.
· <b>Ketumpatan wap</b>	Tidak ditentukan.
· <b>Kadar penyejatan</b>	Tidak ditentukan.
· <b>Keterlarutan dalam / Keterlarutcampuran dengan</b>	
· <b>Air:</b>	Terlarut campur sepenuhnya.
· <b>Pekali sekatan: n-oktanol/air</b>	Tidak ditentukan.
· <b>Kelikatan:</b>	
· <b>Dinamik pada 20 °C:</b>	1.9 mPas
· <b>Kinematik:</b>	Tidak ditentukan.
· <b>Pelarut organik:</b>	100.0 %
· <b>Kandungan pepejal:</b>	0.0 %

(Bersambung ke halaman 6)

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## Helaian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 5)

· **Maklumat lain**

Tiada maklumat lanjut yang diperoleh.

### 10 Kestabilan dan kereaktifan

- **Kereaktifan** Tiada maklumat lanjut yang diperoleh.
- **Kestabilan kimia**
- **Penguraian terma/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:**

· **Nilai LD/LC50 yang berkaitan untuk pengelasan:**

**107-98-2 monopropilena glikol metil eter**

Oral	LD50	5,660 mg/kg (rat)
Derma	LD50	13,000 mg/kg (rabbit)
Tersedut	LC50/4 h	6 mg/l (rat)

- **Kesan kerengsaan primer:**
- **Kakisan atau kerengsaan kulit** Merengsa kepada kulit dan mukus membran.
- **Kerosakan atau kerengsaan mata yang serius** Kesan merengsa.
- **Pemekaan pernafasan / kulit** Tiada kesan pemekaan yang diketahui.
- **Maklumat bagi kumpulan berikut tentang kesan yang mungkin timbul.**
- **Kesan CMR (karsinogen, mutagen dan gangguan kesuburan)**  
Pemb. 1B

### 12 Maklumat ekologi

- **Ketoksikan**
- **Ketoksikan akuatik:** Tiada maklumat lanjut yang diperoleh.
- **Keterusan dan keterdegradasikan** Tiada maklumat lanjut yang diperoleh.
- **Kelakuan dalam sistem alam sekitar:**
- **Potensi bioakumulatif** Tiada maklumat lanjut yang diperoleh.
- **Mobiliiti di dalam tanah** Tiada maklumat lanjut yang diperoleh.
- **Maklumat tambahan ekologi:**
- **Nota am:**  
Bahaya air kelas 1 (Peraturan Jerman) (Penilaian mengikut senarai): sedikit berbahaya kepada air  
Jangan biarkan produk yang tidak dicairkan atau dalam kuantiti yang banyak memasuki air tanah, saluran air atau sistem pemptungan.
- **Keputusan penilaian PBT dan vPvB**
- **PBT:** Tidak berkenaan
- **vPvB:** Tidak berkenaan
- **Kesan buruk yang lain** Tiada maklumat lanjut yang diperoleh.

MY

(Bersambung ke halaman 7)

## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

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**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 6)

### 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
- **Agan pencuci yang disyorkan:** Air, jika perlu, digunakan bersama dengan agan pencuci.

### 14 Maklumat pengangkutan

· <b>Nombor UN</b> · <b>ADR, IMDG, IATA</b>	UN3092
· <b>Nama penghantaran UN yang betul</b> · <b>ADR</b> · <b>IMDG, IATA</b>	3092 1-METHOXY-2-PROPANOL 1-METHOXY-2-PROPANOL
· <b>pengangkutan kelas bahaya</b> · <b>ADR, IMDG, IATA</b>	
	
· <b>Kelas</b> · <b>Label</b>	3 Cecair mudah terbakar. 3
· <b>Kumpulan pembungkusan</b> · <b>ADR, IMDG, IATA</b>	III
· <b>Hazard persekitaran:</b>	Tidak berkenaan
· <b>Langkah perlindungan khas untuk pengguna</b> · <b>Kod bahaya (Kemler):</b> · <b>Nombor EMS:</b> · <b>Stowage Category</b>	Amaran: Cecair mudah terbakar. 30 F-E,S-D A
· <b>Pengangkutan dalam pukal 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: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

(Bersambung ke halaman 8)

MY



## Helaiian Data Keselamatan menurut P.U.(A) 310/2013

Tarikh cetak 26.01.2022

Disemak semula pada 26.01.2022

**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 7)

· **"Peraturan Model" UN:** UN 3092 1-METHOXY-2-PROPANOL, 3, III

### 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** Bahan ini dikelaskan dan dilabelkan menurut Sistem Terharmonisasi Global (GHS).

· **Piktogram hazard**



GHS02    GHS06    GHS08

· **Perkataan isyarat Bahaya**

· **Komponen pelabelan yang menentukan bahaya:**

monopropilena glikol metil eter

2-methoxypropanol

· **Pernyataan hazard**

Cecair dan wap mudah terbakar.

Toksik jika tertedut.

Menyebabkan kerengsaan mata yang serius.

Boleh merosakkan kesuburan atau janin.

Boleh menyebabkan mengantuk atau kepening.

· **Pernyataan langkah perlindungan**

Jauhkan daripada haba/percikan api/nyalaan terbuka/permukaan panas – Dilarang merokok.

Gunakan kelengkapan elektrik/pengalihudaraan/pencahayaan yang tahan letupan.

**JIKA TERKENA KULIT** (atau rambut): Segera tanggalkan/buka semua pakaian yang tercemar. Basuh kulit dengan air/pancuran air.

**JIKA TERKENA MATA:** Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas.

Simpan di tempat berkunci.

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

(Bersambung ke halaman 9)

**Helaiian Data Keselamatan**  
**menurut P.U.(A) 310/2013**

Tarikh cetak 26.01.2022

Disemak semula pada 26.01.2022

**Nama dagang: CONDUCTIVE GOLD-PASTE EXTENDER**

(Sambungan halaman 8)

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Cec. M. Bkr 3: Cecair mudah terbakar – Kategori 3

Toks. Akut 3: Ketoksikan akut – Kategori 3

Kreng. Kulit 2: Kakisan atau kerengsaan kulit – Kategori 2

Kros. Mata 1: Kerosakan mata atau kerengsaan mata yang serius – Kategori 1

Kreng. Mata 2: Kerosakan mata atau kerengsaan mata yang serius – Kategori 2

Pemb. 1B: Ketoksikan pembiakan – Kategori 1B

STOT SE 3: Ketoksikan organ sasaran khusus (pendedahan tunggal) – Kategori 3

MY

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 26.01.2022

Revisión: 26.01.2022

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** CONDUCTIVE GOLD-PASTE EXTENDER

· **Número del artículo:** 12643

· **Número CAS:**

107-98-2

· **Número CE:**

203-539-1

· **Número de clasificación:**

603-064-00-3

· **UFI:** FW42-FOF9-N002-4YJN

· **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**



GHS02 llama

Flam. Liq. 3 H226 Líquidos y vapores inflamables.



GHS06 calavera y tibias cruzadas

Acute Tox. 3 H331 Tóxico en caso de inhalación.



GHS08 peligro para la salud

Repr. 1B H360D Puede dañar al feto.

( se continua en página 2 )

# Ficha de datos de seguridad

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Nombre comercial: **CONDUCTIVE GOLD-PASTE EXTENDER**

( se continua en página 1 )



GHS07

Eye Irrit. 2 H319 Provoca irritación ocular grave.  
STOT SE 3 H336 Puede provocar somnolencia o vértigo.

### · 2.2 Elementos de la etiqueta

#### · Etiquetado con arreglo al Reglamento (CE) n° 1272/2008

La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.

#### · Pictogramas de peligro



GHS02 GHS06 GHS08

#### · Palabra de advertencia Peligro

#### · Componentes peligrosos a indicar en el etiquetaje:

1-metoxi-2-propanol

2-metoxipropanol

#### · Indicaciones de peligro

H226 Líquidos y vapores inflamables.

H331 Tóxico en caso de inhalación.

H319 Provoca irritación ocular grave.

H360D Puede dañar al feto.

H336 Puede provocar somnolencia o vértigo.

#### · Consejos de prudencia

P210 Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.

P241 Utilizar material [eléctrico/ de ventilación/iluminación] antideflagrante.

P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].

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.

P405 Guardar bajo llave.

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

### · 3.1 Caracterización química: Sustancias

#### · Denominación N° CAS

107-98-2 1-metoxi-2-propanol

#### · Número(s) de identificación

· Número CE: 203-539-1

· Número de clasificación: 603-064-00-3

( se continua en página 3 )

# Ficha de datos de seguridad

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Revisión: 26.01.2022

Nombre comercial: **CONDUCTIVE GOLD-PASTE EXTENDER**

( se continua en página 2 )

· **Componentes peligrosos:**

CAS: 1589-47-5	2-metoxipropanol	≤2,5%
EINECS: 216-455-5	⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360D; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	

### SECCIÓN 4: Primeros auxilios

· **4.1 Descripción de los primeros auxilios**· **Instrucciones generales:**

Quitarse de inmediato toda prenda contaminada con el producto.

Antes de quitarse la protección respiratoria, quítese la ropa contaminada.

En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.

· **En caso de inhalación del producto:**

Suministrar aire fresco u oxígeno; solicitar ayuda médica.

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:**

Limpia 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:**

CO<sub>2</sub>, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.

· **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:** Colocarse la protección respiratoria.

### SECCIÓN 6: Medidas en caso de vertido accidental

· **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia**

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

· **6.2 Precauciones relativas al medio ambiente:**

Diluir con mucha agua.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

· **6.3 Métodos y material de contención y de limpieza:**

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

Asegurar suficiente ventilación.

· **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.

( se continua en página 4 )

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Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**  
 Asegurar suficiente ventilación /aspiración en el puesto de trabajo.  
 Abrir y manejar el recipiente con cuidado.  
 Evitar la formación de aerosoles.
- **Prevención de incendios y explosiones:**  
 Mantener alejadas las fuentes de encendido. No fumar.  
 Proteger del calor.  
 Tomar medidas contra las cargas electrostáticas.  
 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.
- **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:**
- |                                     |  |
|-------------------------------------|--|
| <b>107-98-2 1-metoxi-2-propanol</b> |  |
| LEP                                 | Valor de corta duración: 568 mg/m <sup>3</sup> , 150 ppm<br>Valor de larga duración: 375 mg/m <sup>3</sup> , 100 ppm<br>vía dérmica, VLI |
| <b>1589-47-5 2-metoxipropanol</b>   |  |
| LEP                                 | Valor de larga duración: 19 mg/m <sup>3</sup> , 5 ppm<br>TR1B, r   |

- **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 y la piel.
- **Protección respiratoria:**  
 Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

( se continua en página 5 )

# Ficha de datos de seguridad

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( se continua en página 4 )

· **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.

· **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

### SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**· **Datos generales**· **Aspecto:**

Forma: Líquido

Color: Claro

· **Olor:** Característico

· **Umbral olfativo:** No determinado.

· **valor pH:** 4-7

· **Cambio de estado**

Punto de fusión/punto de congelación: -96,7 °C

Punto inicial de ebullición e intervalo de ebullición: 120,3 °C

· **Punto de inflamación:** 35 °C

· **Inflamabilidad (sólido, gas):** No aplicable.

· **Temperatura de ignición:** 270 °C

· **Temperatura de descomposición:** No determinado.

· **Temperatura de auto-inflamación:** No determinado.

· **Propiedades explosivas:** El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.

· **Límites de explosión:**

Inferior: 2,3 Vol %

Superior: ~20 Vol %

· **Presión de vapor a 20 °C:** 12 hPa

· **Densidad a 20 °C:** 3,11 g/cm<sup>3</sup>

( se continua en página 6 )

# Ficha de datos de seguridad

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( se continua en página 5 )

· <b>Densidad relativa</b>	No determinado.
· <b>Densidad de vapor</b>	No determinado.
· <b>Tasa de evaporación:</b>	No determinado.

· <b>Solubilidad en / miscibilidad con agua:</b>	Completamente mezclable.
--	--------------------------

· <b>Coefficiente de reparto: n-octanol/agua:</b>	No determinado.
---	-----------------

· <b>Viscosidad:</b>	
<b>Dinámica a 20 °C:</b>	1,9 mPas
<b>Cinemática:</b>	No determinado.
<b>Disolventes orgánicos:</b>	100,0 %
<b>VOC (CE)</b>	100,00 %

<b>Contenido de cuerpos sólidos:</b>	0,0 %
--------------------------------------	-------

· <b>9.2 Otros datos</b>	No existen más datos relevantes disponibles.
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### 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.
- **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**  
Tóxico en caso de inhalación.

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

#### 107-98-2 1-metoxi-2-propanol

Oral	LD50	5.660 mg/kg (rat)
Dermal	LD50	13.000 mg/kg (rabbit)
Inhalatorio	LC50/4 h	6 mg/l (rat)

- **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**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **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.

( se continua en página 7 )



# Ficha de datos de seguridad

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( se continua en página 6 )

- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
Puede provocar somnolencia o vértigo.
- **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 (clasificación de listas): 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.
- **Producto de limpieza recomendado:** Agua, eventualmente añadiendo productos de limpieza.

### SECCIÓN 14: Información relativa al transporte

- **14.1 Número ONU**
- **ADR, IMDG, IATA** UN3092
- **14.2 Designación oficial de transporte de las Naciones Unidas**
- **ADR** 3092 1-METOXI-2-PROPANOL
- **IMDG, IATA** 1-METHOXY-2-PROPANOL
- **14.3 Clase(s) de peligro para el transporte**
- **ADR, IMDG, IATA**
- 
- **Clase** 3 Líquidos inflamables
- **Etiqueta** 3

( se continua en página 8 )

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( se continua en página 7 )

· 14.4 Grupo de embalaje · ADR, IMDG, IATA	III
· 14.5 Peligros para el medio ambiente:	No aplicable.
· 14.6 Precauciones particulares para los usuarios · Número de identificación de peligro (Número Kemler): · Número EMS: · Stowage Category	Atención: Líquidos inflamables 30 F-E,S-D A
· 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)	5L Código: E1 Cantidad neta máxima por envase interior: 30 ml Cantidad neta máxima por embalaje exterior: 1000 ml
· Categoría de transporte · Código de restricción del túnel	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· "Reglamentación Modelo" de la UNECE:	UN 3092 1-METOXI-2-PROPANOL, 3, III

### 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 No contiene la sustancia.
- Categoría Seveso  
H2 TOXICIDAD AGUDA  
P5c LÍQUIDOS INFLAMABLES
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior 50 t
- Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior 200 t
- REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones: 3, 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

( se continua en página 9 )

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· **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

· **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**

H226 Líquidos y vapores inflamables.  
H315 Provoca irritación cutánea.  
H318 Provoca lesiones oculares graves.  
H335 Puede irritar las vías respiratorias.  
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)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Líquidos inflamables – Categoría 3  
Acute Tox. 3: Toxicidad aguda – Categoría 3  
Skin Irrit. 2: Corrosión o irritación cutáneas – Categoría 2  
Eye Dam. 1: Lesiones oculares graves o irritación ocular – Categoría 1  
Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2  
Repr. 1B: Toxicidad para la reproducción – Categoría 1B  
STOT SE 3: Toxicidad específica en determinados órganos ( exposición única) – Categoría 3