

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/16/2022

Reviewed on 08/16/2022

## 1 Identification

- **Product identifier**
- **Trade name:** EMS 250 Immersion Oil
- **Article number:** 16005-01, 16005-02, 16005-03, 16005-04
- **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**



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Specific Target Organ Toxicity - Single Exposure 3

H335 May cause respiratory irritation.

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



GHS07



GHS08

- **Signal word** Warning
- **Hazard statements**  
Causes skin irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
If on skin: Wash with plenty of water.

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

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

|            |                        |          |
|------------|------------------------|----------|
| 61788-32-7 | hydrogenated terphenyl | >10-≤25% |
|------------|------------------------|----------|

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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

· **Information for doctor:**

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

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

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- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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:**

All components have the value 1.5 ppm.

- **PAC-2:**

All components have the value 47 ppm.

- **PAC-3:**

All components have the value 280 ppm.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **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:**

61788-32-7 hydrogenated terphenyl

REL Long-term value: 5 mg/m<sup>3</sup>, 0.5 ppmTLV Long-term value: 0.5 ppm  
nonirradiated

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

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- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

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

|        |           |
|--------|-----------|
| Form:  | Oily      |
| Color: | Colorless |
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not flammable.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

|        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |
- **Vapor pressure:** Not determined.
- **Density at 20 °C (68 °F):** 1.05 g/cm<sup>3</sup> (8.76225 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**

|        |                                   |
|--------|-----------------------------------|
| Water: | Not miscible or difficult to mix. |
|--------|-----------------------------------|
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**

|          |                 |
|----------|-----------------|
| Dynamic: | Not determined. |
|----------|-----------------|

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|                          |  |
|--------------------------|--|
| <b>Kinematic:</b>        | Not determined.                            |
| <b>Solvent content:</b>  |  |
| <b>VOC content:</b>      | 0.00 %<br>0.0 g/l / 0.00 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No 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 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- Results of PBT and vPvB assessment
- PBT: Not applicable.

## · vPvB:

61788-32-7 hydrogenated terphenyl

- Other adverse effects No further relevant information available.

## 13 Disposal considerations

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

## 14 Transport information

## · UN-Number

· DOT, ADR, IMDG, IATA UN3082

## · UN proper shipping name

## · DOT

Environmentally hazardous substance, liquid, n.o.s.

## · ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## · IMDG

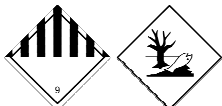
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

## · IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## · Transport hazard class(es)

## · DOT, ADR, IMDG, IATA



## · Class

9 Miscellaneous dangerous substances and articles

## · Label

9

## · Packing group

· DOT, ADR, IMDG, IATA Void

## · Environmental hazards:

## · Marine pollutant:

Yes (DOT)

Symbol (fish and tree)

## · Special marking (ADR):

Symbol (fish and tree)

## · Special marking (IATA):

Symbol (fish and tree)

## · Special precautions for user

Warning: Miscellaneous dangerous substances and articles

## · Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

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· **Transport/Additional information:**

· **DOT**

· **Remarks:** Special marking with the symbol (fish and tree).

· **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9

## 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 product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

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**Trade name: EMS 250 Immersion Oil**

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- **Hazard statements**

- Causes skin irritation.

- May cause respiratory irritation.

- May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

- Do not breathe dust/fume/gas/mist/vapors/spray.

- Wash thoroughly after handling.

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

- Wear protective gloves.

- If on skin: Wash with plenty of water.

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

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

- Specific treatment (see on this label).

- Get medical advice/attention if you feel unwell.

- Take off contaminated clothing and wash it before reuse.

- If skin irritation occurs: Get medical advice/attention.

- Store in a well-ventilated place. Keep container tightly closed.

- 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** 08/16/2022 / -

- **Abbreviations and acronyms:**

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

- IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation

- IATA: International Air Transport Association

- EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances

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

- NFPA: National Fire Protection Association (USA)

- HMIS: Hazardous Materials Identification System (USA)

- VOC: Volatile Organic Compounds (USA, EU)

- PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative

- NIOSH: National Institute for Occupational Safety

- OSHA: Occupational Safety **Health**

- TLV: **Threshold Limit Value**

- PEL: **Permissible Exposure Limit**

- REL: **Recommended Exposure Limit**

- Skin Irritation 2: Skin corrosion/irritation – Category 2

- Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

- Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2



# Safety Data Sheet

## according to WHS Regulations

Printing date 16.08.2022

Revision: 16.08.2022

### 1 Identification

- **Product identifier**
- **Trade name:** EMS 250 Immersion Oil
- **Article number:** 16005-01, 16005-02, 16005-03, 16005-04
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Website: [ems.proscitech.com](http://ems.proscitech.com)
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: [www.emgrid.com.au](http://www.emgrid.com.au)
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

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

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Trade name: EMS 250 Immersion Oil

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· **Hazard pictograms**

GHS07 GHS08

· **Signal word** Warning· **Hazard statements**

Causes skin irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

IF ON SKIN: Wash with plenty of water.

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

Call a POISON CENTER/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

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:**

61788-32-7 hydrogenated terphenyl

### 3 Composition and Information on Ingredients

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

61788-32-7 hydrogenated terphenyl

&gt;10-≤25%

· **SVHC**

61788-32-7 hydrogenated terphenyl

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

### 4 First Aid Measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After eye contact:** Rinse opened eye for several minutes under running water.· **After swallowing:** If symptoms persist consult doctor.

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Trade name: EMS 250 Immersion Oil

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

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

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** None.
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.

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· **Protection of hands:**

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

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

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

· **Material of gloves**

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

· **Penetration time of glove material**

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

· **Eye protection:** Goggles recommended during refilling

### 9 Physical and Chemical Properties

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

· **General Information**

· **Appearance:**

Form: Oily

Colour: Colourless

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gas):** Not applicable.

· **Decomposition temperature:** Not determined.

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

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1.05 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

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

Not miscible or difficult to mix.

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

· **Viscosity:**

Dynamic: Not determined.

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Trade name: EMS 250 Immersion Oil

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|                                       |  |
|---------------------------------------|--|
| <b>Kinematic:</b>                     | Not determined.                            |
| <b>· Solvent content:</b><br>VOC (EC) | 0.00 %                                     |
| <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**
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

### 12 Ecological Information

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

- **vPvB:**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

- **Other adverse effects** No further relevant information available.

AU

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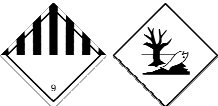
Trade name: EMS 250 Immersion Oil

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### 13 Disposal considerations

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

### 14 Transport information

|  |  |
|--|--|
| · <b>UN-Number</b><br>· <b>ADG, IMDG, IATA</b>   | UN3082   |
| · <b>UN proper shipping name</b><br>· <b>ADG</b><br><br>· <b>IMDG</b><br><br>· <b>IATA</b> | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| · <b>Transport hazard class(es)</b><br>· <b>ADG, IMDG, IATA</b>                            |  |
|         |  |
| · <b>Class</b><br>· <b>Label</b>   | 9 Miscellaneous dangerous substances and articles.<br>9  |
| · <b>Packing group</b><br>· <b>ADG, IMDG, IATA</b>   | not regulated  |
| · <b>Environmental hazards:</b><br>· <b>Marine pollutant:</b>                              | Yes (DOT)<br>Symbol (fish and tree)  |
| · <b>Special marking (ADG):</b><br>· <b>Special marking (IATA):</b>                        | Symbol (fish and tree)<br>Symbol (fish and tree)   |
| · <b>Special precautions for user</b>  | Warning: Miscellaneous dangerous substances and articles.  |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>                | Not applicable.  |
| · <b>UN "Model Regulation":</b>  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals**  
All ingredients are listed.

(Contd. on page 7)

AU

# Safety Data Sheet

## according to WHS Regulations

Printing date 16.08.2022

Revision: 16.08.2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 6)

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

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard statements**

Causes skin irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

IF ON SKIN: Wash with plenty of water.

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

Call a POISON CENTER/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

· **Directive 2012/18/EU**

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

· **Seveso category E2** Hazardous to the Aquatic Environment

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

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

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

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

61788-32-7 | hydrogenated terphenyl

· **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.

(Contd. on page 8)

**Safety Data Sheet**  
according to WHS Regulations

Printing date 16.08.2022

Revision: 16.08.2022

**Trade name: EMS 250 Immersion Oil**

(Contd. of page 7)

**· 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)*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

-AU-



# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

### 1 Identification

- **Product identifier**
- **Trade name:** EMS 250 Immersion Oil
- **Article number:** 16005-01, 16005-02, 16005-03, 16005-04
- **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**



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure - Category 2      H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation - Category 2      H315 Causes skin irritation.  
Specific Target Organ Toxicity - Single Exposure - Category 3      H335 May cause respiratory irritation.

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



GHS07    GHS08

- **Signal word** Warning
- **Hazard statements**  
Causes skin irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Do not breathe 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.

(Contd. on page 2)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 1)

If on skin: Wash with plenty of water.

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

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

### 3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

|            |                        |              |
|------------|------------------------|--------------|
| 61788-32-7 | hydrogenated terphenyl | 10-30% w/w * |
|------------|------------------------|--------------|

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

### 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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

· **Information for doctor:**

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

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 3)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **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:**

61788-32-7 hydrogenated terphenyl

|    |                               |
|----|-------------------------------|
| EL | TWA: 0.5 ppm<br>nonirradiated |
| EV | TWA: 0.5 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:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 3)

- **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:** Goggles recommended during refilling.

### 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Oily            |
| <b>Color:</b>          | Colorless       |
| <b>Odor:</b>           | Odorless        |
| <b>Odor threshold:</b> | Not determined. |

- **pH-value:** Not determined.

- **Change in condition**

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

- **Flash point:** Not applicable.

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

- **Decomposition temperature:** Not determined.

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

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

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

- **Vapor pressure:** Not determined.

|                          |                        |
|--------------------------|------------------------|
| <b>Density at 20 °C:</b> | 1.05 g/cm <sup>3</sup> |
| <b>Relative density</b>  | Not determined.        |
| <b>Vapor density</b>     | Not determined.        |
| <b>Evaporation rate</b>  | Not determined.        |

- **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

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

- **Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

- **Solvent content:**

**Solids content:** 0.0 %

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

CA

(Contd. on page 5)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 4)

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

|   |
|---|
| · <b>IARC (International Agency for Research on Cancer)</b> |
|---|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

|  |
|--|
| · <b>NTP (National Toxicology Program)</b> |
|--|

|                                    |
|------------------------------------|
| None of the ingredients is listed. |
|------------------------------------|

### 12 Ecological information

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

|                |
|----------------|
| · <b>vPvB:</b> |
|----------------|

|                                   |
|-----------------------------------|
| 61788-32-7 hydrogenated terphenyl |
|-----------------------------------|

- **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.

(Contd. on page 6)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

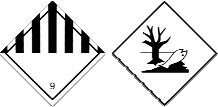
Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 5)

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

### 14 Transport information

|  |   |
|--|---|
| · <b>UN-Number</b><br>· <b>DOT/TDG, ADR, IMDG, IATA</b>  | UN3082  |
| · <b>UN proper shipping name</b><br>· <b>DOT/TDG</b><br>· <b>ADR</b><br>· <b>IMDG</b><br><br>· <b>IATA</b> | Environmentally hazardous substance, liquid, n.o.s.<br>3082 Environmentally hazardous substance, liquid, n.o.s.<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| · <b>Transport hazard class(es)</b><br>· <b>DOT, ADR, IMDG, IATA</b>                                       |   |
|                           |   |
| · <b>Class</b><br>· <b>Label</b>   | 9 Miscellaneous dangerous substances and articles<br>9  |
| · <b>Packing group</b><br>· <b>DOT/TDG, ADR, IMDG, IATA</b>  | Void  |
| · <b>Environmental hazards:</b><br>· <b>Marine pollutant:</b>  | Yes (DOT)<br>Symbol (fish and tree)   |
| · <b>Special marking (ADR):</b><br>· <b>Special marking (IATA):</b>  | Symbol (fish and tree)<br>Symbol (fish and tree)  |
| · <b>Special precautions for user</b>  | Warning: Miscellaneous dangerous substances and articles  |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>                           | Not applicable.   |
| · <b>Transport/Additional information:</b><br>· <b>DOT/TDG</b><br>· <b>Remarks:</b>                        | Special marking with the symbol (fish and tree).  |
| · <b>UN "Model Regulation":</b>  | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9  |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

(Contd. on page 7)

CA

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 6)

## · 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.

· **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%)**

None of the ingredients is listed.

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

GHS07 GHS08

· **Signal word** Warning· **Hazard statements**

Causes skin irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe 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: Wash with plenty of water.

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

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

Store in a well-ventilated place. Keep container tightly closed.

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.

CA

(Contd. on page 8)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 08/16/2022

Reviewed on 08/16/2022

**Trade name: EMS 250 Immersion Oil**

(Contd. of page 7)

### 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** 08/16/2022 / -
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods*
  - DOT: US Department of Transportation*
  - IATA: International Air Transport Association*
  - EINECS: European Inventory of Existing Commercial Chemical Substances*
  - ELINCS: European List of Notified Chemical Substances*
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)*
  - NFPA: National Fire Protection Association (USA)*
  - HMIS: Hazardous Materials Identification System (USA)*
  - PBT: Persistent, Bioaccumulative and Toxic*
  - vPvB: very Persistent and very Bioaccumulative*

CA



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

Printing date 16.08.2022

Revision: 16.08.2022

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

- **1.1 Product identifier**
- **Trade name:** EMS 250 Immersion Oil
- **Article number:** 16005-01, 16005-02, 16005-03, 16005-04
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: [info@emsdiasum.com](mailto:info@emsdiasum.com)  
[www.emsdiasum.com](http://www.emsdiasum.com)
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

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



health hazard

STOT RE 2      H373 May cause damage to organs through prolonged or repeated exposure.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2      H315 Causes skin irritation.

STOT SE 3      H335 May cause respiratory irritation.

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



GHS07



GHS08



GHS09

- **Signal word** Warning
- **Hazard statements**  
H315 Causes skin irritation.

(Contd. on page 2)

# Safety data sheet

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

Printing date 16.08.2022

Revision: 16.08.2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 1)

- H335 May cause respiratory irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 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:**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

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

- **Dangerous components:**

|            |                        |  |           |
|------------|------------------------|--|-----------|
| 61788-32-7 | hydrogenated terphenyl | Non-classified vPvB substance.<br>Substance with a Community workplace exposure limit. | >10- ≤25% |
|------------|------------------------|--|-----------|

- **SVHC**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

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

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

GB

(Contd. on page 3)

# Safety data sheet

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

Printing date 16.08.2022

Revision: 16.08.2022

Trade name: EMS 250 Immersion Oil

(Contd. of page 2)

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** None.
- **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:**

61788-32-7 hydrogenated terphenyl

|     |  |
|-----|--|
| WEL | Short-term value: 48 mg/m <sup>3</sup> , 5 ppm |
|     | Long-term value: 19 mg/m <sup>3</sup> , 2 ppm  |

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

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.

- **Protection of hands:**

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

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

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

- **Material of gloves**

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

- **Penetration time of glove material**

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

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· **Eye protection:** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

|                           |                 |
|---------------------------|-----------------|
| · <b>Form:</b>            | Oily            |
| · <b>Colour:</b>          | Colourless      |
| · <b>Odour:</b>           | Odourless       |
| · <b>Odour threshold:</b> | Not determined. |

|                    |                 |
|--------------------|-----------------|
| · <b>pH-value:</b> | Not determined. |
|--------------------|-----------------|

##### · Change in condition

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

|                       |                 |
|-----------------------|-----------------|
| · <b>Flash point:</b> | Not applicable. |
|-----------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| · <b>Flammability (solid, gas):</b> | Not applicable. |
|-------------------------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| · <b>Decomposition temperature:</b> | Not determined. |
|-------------------------------------|-----------------|

|                                     |                              |
|-------------------------------------|------------------------------|
| · <b>Auto-ignition temperature:</b> | Product is not selfigniting. |
|-------------------------------------|------------------------------|

|                                |   |
|--------------------------------|---|
| · <b>Explosive properties:</b> | Product does not present an explosion hazard. |
|--------------------------------|---|

##### · Explosion limits:

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

|                           |                 |
|---------------------------|-----------------|
| · <b>Vapour pressure:</b> | Not determined. |
|---------------------------|-----------------|

|                            |                        |
|----------------------------|------------------------|
| · <b>Density at 20 °C:</b> | 1.05 g/cm <sup>3</sup> |
|----------------------------|------------------------|

|                           |                 |
|---------------------------|-----------------|
| · <b>Relative density</b> | Not determined. |
|---------------------------|-----------------|

|                         |                 |
|-------------------------|-----------------|
| · <b>Vapour density</b> | Not determined. |
|-------------------------|-----------------|

|                           |                 |
|---------------------------|-----------------|
| · <b>Evaporation rate</b> | Not determined. |
|---------------------------|-----------------|

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

Not miscible or difficult to mix.

|  |                 |
|--|-----------------|
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined. |
|--|-----------------|

##### · Viscosity:

|                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

##### · Solvent content:

|                   |        |
|-------------------|--------|
| · <b>VOC (EC)</b> | 0.00 % |
|-------------------|--------|

|                          |       |
|--------------------------|-------|
| · <b>Solids content:</b> | 0.0 % |
|--------------------------|-------|

|                                |  |
|--------------------------------|--|
| · <b>9.2 Other information</b> | No further relevant information available. |
|--------------------------------|--|

### SECTION 10: Stability and reactivity

|                          |  |
|--------------------------|--|
| · <b>10.1 Reactivity</b> | No further relevant information available. |
|--------------------------|--|

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

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

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

· **vPvB:**

61788-32-7 hydrogenated terphenyl

- **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.

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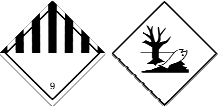
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

|   |  |
|---|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>   | UN3082   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR</b><br><br>· <b>IMDG</b><br><br>· <b>IATA</b>   | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| · <b>14.3 Transport hazard class(es)</b><br><br>· <b>ADR, IMDG, IATA</b><br><br> | <br><br>9 Miscellaneous dangerous substances and articles.<br>9  |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>   | not regulated  |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b><br>· <b>Special marking (ADR):</b><br>· <b>Special marking (IATA):</b>                         | Symbol (fish and tree)<br>Symbol (fish and tree)<br>Symbol (fish and tree)   |
| · <b>14.6 Special precautions for user</b>  | Warning: Miscellaneous dangerous substances and articles.  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>  | Not applicable.  |
| · <b>UN "Model Regulation":</b>   | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

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- National regulations:
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to UK REACH

61788-32-7 | hydrogenated terphenyl

- 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.*

- **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)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

GB

# Veiligheidsinformatieblad

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

### · 1.1 Productidentificatie

· Handelsnaam: EMS 250 Immersion Oil

· Artikelnummer: 16005-01, 16005-02, 16005-03, 16005-04

· UFI: EVG5-D0A1-J00D-6D7S

### · 1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Geen verdere relevante informatie verkrijgbaar.

· Toepassing van de stof / van de bereiding Laboratoriumchemicaliën

### · 1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad

#### · Fabrikant/leverancier:

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

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

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

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

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: [info@aurion.nl](mailto:info@aurion.nl)

· Inlichtingengevende sector: Product safety department

### · 1.4 Telefoonnummer voor noodgevallen:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

### · 2.1 Indeling van de stof of het mengsel

· Indeling overeenkomstig Verordening (EG) nr. 1272/2008



GHS08 gezondheidsgevaar

STOT RE 2

H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.



GHS09 milieu

Aquatic Chronic 2

H411 Giftig voor in het water levende organismen, met langdurige gevolgen.



GHS07

Skin Irrit. 2

H315 Veroorzaakt huidirritatie.

STOT SE 3

H335 Kan irritatie van de luchtwegen veroorzaken.

### · 2.2 Etiketteringselementen

· Etikettering overeenkomstig Verordening (EG) nr. 1272/2008

Het product is geïdentificeerd en geïdentificeerd volgens de CLP-verordening.

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### · Gevarenpictogrammen



GHS07 GHS08 GHS09

### · Signaalwoord Waarschuwing

### · Gevarenaanduidingen

H315 Veroorzaakt huidirritatie.

H335 Kan irritatie van de luchtwegen veroorzaken.

H373 Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.

H411 Giftig voor in het water levende organismen, met langdurige gevolgen.

### · Veiligheidsaanbevelingen

P260 Stof/rook/gas/nevel/damp/spuitnevel niet inademen.

P280 Draag beschermende handschoenen.

P304+P340 NA INADEMING: de persoon in de frisse lucht brengen en ervoor zorgen dat deze gemakkelijk kan ademen.

P312 Bij onwel voelen een ANTIGIFCENTRUM/arts raadplegen.

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:

61788-32-7 gehydrogeneerde terfenylen

## RUBRIEK 3: Samenstelling en informatie over de bestanddelen

### · 3.2 Chemische karakterisering: Mengsels

- Beschrijving: Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.

### · Gevaarlijke inhoudstoffen:

|            |  |          |
|------------|--|----------|
| 61788-32-7 | gehydrogeneerde terfenylen<br>Niet-ingedeelde zPzB-stof.<br>Stof waarvoor binnen de Gemeenschap een blootstellingsgrens op de werkvloer geldt. | >10-≤25% |
|------------|--|----------|

### · SVHC

61788-32-7 gehydrogeneerde terfenylen

### · Aanvullende gegevens:

De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

## RUBRIEK 4: Eerstehulpmaatregelen

### · 4.1 Beschrijving van de eerstehulpmaatregelen

- Na het inademen: Frisse lucht toedienen; bij klachten arts ontbieden.

- Na huidcontact: Over het algemeen is het produkt niet prikkelend voor de huid

- Na oogcontact: Ogen bij geopend ooglid meerdere minuten met stromend water spoelen

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

- 4.2 Belangrijkste acute en uitgestelde symptomen en effecten Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 3)

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- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**  
Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**  
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweerlieden**
- **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

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

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures** Niet nodig.
- **6.2 Milieuvoorzorgsmaatregelen:** 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.
- **6.4 Verwijzing naar andere rubrieken**  
Informatie inzake veilig gebruik - zie hoofdstuk 7.  
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.  
Informatie inzake berging - zie hoofdstuk 13.

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**  
Bij een deskundig gebruik zijn geen bijzondere maatregelen vereist.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Geen bijzondere maatregelen noodzakelijk.
- **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:** Geen.
- **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:**

61788-32-7 gehydrogeneerde terfenylen

|     |  |
|-----|--|
| WGW | Korte termijn waarde: 48 mg/m <sup>3</sup><br>Lange termijn waarde: 19 mg/m <sup>3</sup> |
|-----|--|

- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**  
Vóór de pauze en aan het einde van werktijd handen wassen.
- **Ademhalingsbescherming:** Niet noodzakelijk.

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- **Handbescherming:**

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.

Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

- **Handschoenmateriaal**

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

- **Doordringingstijd van het handschoenmateriaal**

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

- **Oogbescherming:** Bij het omgieten is het gebruik van een veiligheidsbril aan te bevelen.

### RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**

- **Algemene gegevens**

- **Voorkomen:**

**Vorm:** Olieachtig

**Kleur:** Kleurloos

- **Geur:** Reukloos

- **Geurdrempelwaarde:** Niet bepaald.

- **pH-waarde:** Niet bepaald.

- **Toestandsverandering**

**Smelt-/vriespunt:** Niet bepaald.

**Beginkookpunt en kooktraject:** Niet bepaald.

- **Vlampunt:** Niet bruikbaar.

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

- **Ontledingstemperatuur:** Niet bepaald.

- **Zelfontbrandingstemperatuur:** Het produkt ontbrandt niet uit zichzelf.

- **Ontploffingseigenschappen:** Het produkt is niet ontploffingsgevaarlijk.

- **Ontploffingsgrenzen:**

**Onderste:** Niet bepaald.

**Bovenste:** Niet bepaald.

- **Dampspanning:** Niet bepaald.

**Dichtheid bij 20 °C:** 1,05 g/cm<sup>3</sup>

- **Relatieve dichtheid** Niet bepaald.

- **Dampdichtheid** Niet bepaald.

- **Verdampingssnelheid** Niet bepaald.

- **Oplosbaarheid in/mengbaarheid met**

**Water:** Niet resp. gering mengbaar.

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

- **Viscositeit**

**Dynamisch:** Niet bepaald.

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|  |   |
|--|---|
| <b>Kinematisch:</b>                    | Niet bepaald.                                   |
| <b>Oplosmiddelgehalte:</b><br>VOC (EG) | 0,00 %  |
| <b>Gehalte aan vaste bestanddelen:</b> | 0,0 %   |
| <b>9.2 Overige informatie</b>          | Geen verdere relevante informatie verkrijgbaar. |

### RUBRIEK 10: Stabiliteit en reactiviteit

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

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Primaire aandoening:**
- **Huidcorrosie/-irritatie**  
Veroorzaakt huidirritatie.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **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** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling**  
Kan irritatie van de luchtwegen veroorzaken.
- **STOT bij herhaalde blootstelling**  
Kan schade aan organen veroorzaken bij langdurige of herhaalde blootstelling.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)  
Gevaar voor water klasse 1 (D) (Zelfclassificatie): gevaar voor water klein

(Vervolg op blz. 6)

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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:**

|            |                            |
|------------|----------------------------|
| 61788-32-7 | gehydrogeneerde terfenylen |
|------------|----------------------------|

- **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.

## RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA**

UN3082

- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**

- **ADR** 3082 MILIEUGEVAARLIJKE VLOEISTOF, N.E.G.
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT
- **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

- **14.3 Transportgevaarenklasse(n)**

- **ADR, IMDG, IATA**



- **klasse** 9 Diverse gevaarlijke stoffen en voorwerpen
- **Etiket** 9

- **14.4 Verpakkingsgroep:**

- **ADR, IMDG, IATA** Niet van toepassing

- **14.5 Milieugevaren:**

- **Marine pollutant:** Symbool (vis en boom)
- **Bijzondere kenmerking (ADR):** Symbool (vis en boom)
- **Bijzondere kenmerking (IATA):** Symbool (vis en boom)

- **14.6 Bijzondere voorzorgen voor de gebruiker** Waarschuwing: Diverse gevaarlijke stoffen en voorwerpen

- **14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code**

Niet bruikbaar.

- **VN "Model Regulation":** UN 3082 MILIEUGEVAARLIJKE VLOEISTOF, N.E.G., 9

NL

(Vervolg op blz. 7)

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## RUBRIEK 15: Regelgeving

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

#### · SZW-lijst van kankerverwekkende stoffen

geen der bestanddelen staat op de lijst.

#### · SZW-lijst van mutagene stoffen

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

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

alle bestanddelen staan op de lijst.

#### · Lijst van Potentieel Zeer Zorgwekkende Stoffen

geen der bestanddelen staat op de lijst.

#### · Richtlijn 2012/18/EU

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

· Seveso-categorie E2 Gevaar voor het aquatisch milieu

· Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 200 t

· Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 500 t

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

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

geen der bestanddelen staat op de lijst.

#### · VERORDENING (EU) 2019/1148

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

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

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

geen der bestanddelen staat op de lijst.

#### · Nationale voorschriften:

##### · Gevaarklasse v. water:

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

#### · Aanvullende voorschriften, beperkingen en verbodsverordeningen

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

61788-32-7 | gehydrogeneerde terfenylen

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

## RUBRIEK 16: Overige informatie

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

**· 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)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Huidcorrosie/-irritatie – Categorie 2

STOT SE 3: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 3

STOT RE 2: Specifieke doelorgaantoxiciteit bij herhaalde blootstelling – Categorie 2

Aquatic Chronic 2: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 2

NL

# Fiche de données de sécurité

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

- **1.1 Identificateur de produit**
- **Nom du produit:** *EMS 250 Immersion Oil*
- **Code du produit:** 16005-01, 16005-02, 16005-03, 16005-04
- **UFI:** EVG5-D0A1-J00D-6D7S
- **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**



GHS08 danger pour la santé

STOT RE 2

H373 Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.



GHS09 environnement

Aquatic Chronic 2 H411 Toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.



GHS07

Skin Irrit. 2

H315 Provoque une irritation cutanée.

STOT SE 3

H335 Peut irriter les voies respiratoires.

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



GHS07



GHS08



GHS09

- **Mention d'avertissement** Attention

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· **Mentions de danger**

H315 Provoque une irritation cutanée.

H335 Peut irriter les voies respiratoires.

H373 Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.

H411 Toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

· **Conseils de prudence**

P260 Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.

P280 Porter des gants de protection.

P304+P340 EN CAS D'INHALATION: transporter la personne à l'extérieur et la maintenir dans une position où elle peut confortablement respirer.

P312 Appeler un CENTRE ANTIPOISON/un médecin en cas de malaise.

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:**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

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

· **3.2 Caractérisation chimique: Mélanges**

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

· **Composants dangereux:**

|            |  |           |
|------------|--|-----------|
| 61788-32-7 | hydrogenated terphenyl<br>Substance vPvB non classée.<br>Substance pour laquelle il existe, en vertu des dispositions communautaires, des limites d'exposition sur le lieu de travail. | >10- ≤25% |
|------------|--|-----------|

· **SVHC**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

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

### RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**

· **Après inhalation:** Donner de l'air frais, consulter un médecin en cas de troubles.

· **Après contact avec la peau:** En règle générale, le produit n'irrite pas la peau.

· **Après contact avec les yeux:**

Rincer les yeux, sous l'eau courante, pendant plusieurs minutes, en écartant bien les paupières.

· **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.

FR

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

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

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

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).
- **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**  
Aucune mesure particulière n'est nécessaire en cas de bonne utilisation.
- **Préventions des incendies et des explosions:** Aucune mesure particulière n'est requise.
- **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:** Néant.
- **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:**

61788-32-7 hydrogenated terphenyl

|      |   |
|------|---|
| VLEP | Valeur momentanée: 48 mg/m <sup>3</sup> , 5 ppm   |
|      | Valeur à long terme: 19 mg/m <sup>3</sup> , 2 ppm |

- **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:** Se laver les mains avant les pauses et en fin de travail.
- **Protection respiratoire:** N'est pas nécessaire.

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- **Protection des mains:**

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

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

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

- **Matériau des gants**

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

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

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

- **Protection des yeux:** Lunettes de protection recommandées pour le transvasement.

### RUBRIQUE 9: Propriétés physiques et chimiques

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

- **Indications générales**

- **Aspect:**

**Forme:** Huileuse

**Couleur:** Incolore

- **Odeur:** Inodore

- **Seuil olfactif:** Non déterminé.

- **valeur du pH:** Non déterminé.

- **Changement d'état**

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

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

- **Point d'éclair** Non applicable.

- **Inflammabilité (solide, gaz):** Non applicable.

- **Température de décomposition:** Non déterminé.

- **Température d'auto-inflammabilité:** Le produit ne s'enflamme pas spontanément.

- **Propriétés explosives:** Le produit n'est pas explosif.

- **Limites d'explosion:**

**Inférieure:** Non déterminé.

**Supérieure:** Non déterminé.

- **Pression de vapeur:** Non déterminé.

- **Densité à 20 °C:** 1,05 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:** Pas ou peu miscible

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

- **Viscosité:**

**Dynamique:** Non déterminé.

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|   |  |
|---|--|
| <b>Cinématique:</b>                       | Non déterminé.                                     |
| <b>· Teneur en solvants:<br/>VOC (CE)</b> | 0,00 %   |
| <b>Teneur en substances solides:</b>      | 0,0 %  |
| <b>· 9.2 Autres informations</b>          | Pas d'autres informations importantes disponibles. |

### RUBRIQUE 10: Stabilité et réactivité

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

### RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
Provoque une irritation cutanée.
- **Lésions oculaires graves/irritation oculaire**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **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)**
- **Mutagénicité 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**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Peut irriter les voies respiratoires.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Risque présumé d'effets graves pour les organes à la suite d'expositions répétées ou d'une exposition prolongée.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.

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· **Autres indications écologiques:**

· **Indications générales:**

Catégorie de pollution des eaux 1 (D) (Classification propre): peu polluant

Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.

· **12.5 Résultats des évaluations PBT et VPVB**

· **PBT:** Non applicable.

· **vPvB:**

61788-32-7 hydrogenated terphenyl

· **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

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

· **13.1 Méthodes de traitement des déchets**

· **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.

· **Emballages non nettoyés:**

· **Recommandation:** Evacuation conformément aux prescriptions légales.

### RUBRIQUE 14: Informations relatives au transport

· **14.1 Numéro ONU**

· **ADR, IMDG, IATA**

UN3082

· **14.2 Désignation officielle de transport de l'ONU**

· **ADR**

3082 MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A.

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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

· **ADR, IMDG, IATA**



· **Classe**

9 Matières et objets dangereux divers.

· **Étiquette**

9

· **14.4 Groupe d'emballage**

· **ADR, IMDG, IATA**

néant

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

· **Marine Pollutant:**

Signe conventionnel (poisson et arbre)

· **Marquage spécial (ADR):**

Signe conventionnel (poisson et arbre)

· **Marquage spécial (IATA):**

Signe conventionnel (poisson et arbre)

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

Attention: Matières et objets dangereux divers.

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- |  |   |
|--|---|
| · <b>14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC</b> | Non applicable.   |
| · <b>"Règlement type" de l'ONU:</b>  | UN 3082 MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A., 9 |

### RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** Aucun des composants n'est compris.
- **Catégorie SEVESO E2** Danger pour l'environnement aquatique
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas** 200 t
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut** 500 t
- **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 3
- **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.
- **Prescriptions nationales:**
- **Autres prescriptions, restrictions et règlements d'interdiction**
- **Substances extrêmement préoccupantes (SVHC) selon REACH, article 57**
- 61788-32-7 | hydrogenated terphenyl
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

### RUBRIQUE 16: Autres informations

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

#### · **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)

(suite page 8)

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

Date d'impression : 16.08.2022

Révision: 16.08.2022

**Nom du produit: EMS 250 Immersion Oil**

(suite de la page 7)

*VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2**STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3**STOT RE 2: Toxicité spécifique pour certains organes cibles (exposition répétée) – Catégorie 2**Aquatic Chronic 2: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 2*

FR

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.08.2022

überarbeitet am: 16.08.2022

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

- **1.1 Produktidentifikator**
- **Handelsname:** EMS 250 Immersion Oil
- **Artikelnummer:** 16005-01, 16005-02, 16005-03, 16005-04
- **UFI:** EVG5-D0A1-J00D-6D7S
- **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
- **Auskunfteibereich:** 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**



GHS08 Gesundheitsgefahr

STOT RE 2

H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.



GHS09 Umwelt

Aquatic Chronic 2 H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.



GHS07

Skin Irrit. 2

H315 Verursacht Hautreizungen.

STOT SE 3

H335 Kann die Atemwege reizen.

(Fortsetzung auf Seite 2)



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



GHS07   GHS08   GHS09

- **Signalwort** Achtung
- **Gefahrenhinweise**  
H315 Verursacht Hautreizungen.  
H335 Kann die Atemwege reizen.  
H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.  
H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.
- **Sicherheitshinweise**  
P260 Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.  
P280 Schutzhandschuhe tragen.  
P304+P340 BEI EINATMEN: Die Person an die frische Luft bringen und für ungehinderte Atmung sorgen.  
P312 Bei Unwohlsein GIFTINFORMATIONSZENTRUM/Arzt anrufen.  
P405 Unter Verschluss aufbewahren.  
P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.
- **2.3 Sonstige Gefahren**
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.

· **vPvB:**

61788-32-7 hydrogenated terphenyl

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

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

· **Gefährliche Inhaltsstoffe:**

|            |                        |                  |            |          |
|------------|------------------------|------------------|------------|----------|
| 61788-32-7 | hydrogenated terphenyl | nicht eingestuft | vPvB-Stoff | >10-≤25% |
|------------|------------------------|------------------|------------|----------|

· **SVHC**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

- **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Nach Einatmen:** Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.
- **Nach Hautkontakt:** Im allgemeinen ist das Produkt nicht hautreizend.
- **Nach Augenkontakt:** Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.
- **Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**  
Keine weiteren relevanten Informationen verfügbar.

(Fortsetzung auf Seite 3)

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- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**  
Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**  
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.
- **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**  
Bei sachgemäßer Verwendung keine besonderen Maßnahmen erforderlich.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **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:** Keine.
- **Lagerklasse:**
- **Klassifizierung nach Betriebsicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

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

- **8.1 Zu überwachende Parameter**
- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.
- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:**  
Das Produkt enthält keine relevanten Mengen von Stoffen mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten.
- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

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- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:** Vor den Pausen und bei Arbeitsende Hände waschen.
- **Atemschutz:** Nicht erforderlich.
- **Handschutz:**  
Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.  
Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.
- **Handschuhmaterial**  
Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialen nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.
- **Durchdringungszeit des Handschuhmaterials**  
Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.
- **Augenschutz:** Beim Umfüllen Schutzbrille empfehlenswert.

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

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

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Ölig            |
| <b>Farbe:</b>           | Farblos         |
| <b>Geruch:</b>          | Geruchlos       |
| <b>Geruchsschwelle:</b> | Nicht bestimmt. |
- **pH-Wert:** Nicht bestimmt.
- **Zustandsänderung**

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Schmelzpunkt/Gefrierpunkt:</b>    | Nicht bestimmt. |
| <b>Siedebeginn und Siedebereich:</b> | Nicht bestimmt. |
- **Flammpunkt:** Nicht anwendbar.
- **Entzündbarkeit (fest, gasförmig):** Nicht anwendbar.
- **Zersetzungstemperatur:** Nicht bestimmt.
- **Selbstentzündungstemperatur:** Das Produkt ist nicht selbstentzündlich.
- **Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich.
- **Explosionsgrenzen:**

|                |                 |
|----------------|-----------------|
| <b>Untere:</b> | Nicht bestimmt. |
| <b>Obere:</b>  | Nicht bestimmt. |
- **Dampfdruck:** Nicht bestimmt.
- **Dichte bei 20 °C:** 1,05 g/cm<sup>3</sup>
- **Relative Dichte** Nicht bestimmt.
- **Dampfdichte** Nicht bestimmt.
- **Verdampfungsgeschwindigkeit** Nicht bestimmt.

(Fortsetzung auf Seite 5)

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|  |  |
|--|--|
| · <b>Löslichkeit in / Mischbarkeit mit Wasser:</b> | Nicht bzw. wenig mischbar.                         |
| · <b>Verteilungskoeffizient: n-Octanol/Wasser:</b> | Nicht bestimmt.                                    |
| · <b>Viskosität:</b>                               |  |
| <b>Dynamisch:</b>                                  | Nicht bestimmt.                                    |
| <b>Kinematisch:</b>                                | Nicht bestimmt.                                    |
| · <b>Lösemittelgehalt:</b>                         |  |
| <b>VOC (EU)</b>                                    | 0,00 %   |
| <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** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut**  
Verursacht Hautreizungen.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **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** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Kann die Atemwege reizen.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Kann die Organe schädigen bei längerer oder wiederholter Exposition.
- **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.

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

· **vPvB:**



61788-32-7 | hydrogenated terphenyl

- **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.

### ABSCHNITT 14: Angaben zum Transport

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Nummer</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN3082   |
| <ul style="list-style-type: none"> <li>· <b>14.2 Ordnungsgemäße UN-Versandbezeichnung</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>  | 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G.<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transportgefahrenklassen</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul> <div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> <li>· <b>Klasse</b></li> <li>· <b>Gefahrzettel</b></li> </ul> | 9 Verschiedene gefährliche Stoffe und Gegenstände<br>9   |
| <ul style="list-style-type: none"> <li>· <b>14.4 Verpackungsgruppe</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | entfällt   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Umweltgefahren:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Besondere Kennzeichnung (ADR):</b></li> <li>· <b>Besondere Kennzeichnung (IATA):</b></li> </ul>  | Symbol (Fisch und Baum)<br>Symbol (Fisch und Baum)<br>Symbol (Fisch und Baum)  |

(Fortsetzung auf Seite 7)

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- **14.6 Besondere Vorsichtsmaßnahmen für den Verwender** Achtung: Verschiedene gefährliche Stoffe und Gegenstände
- **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code** Nicht anwendbar.
- **UN "Model Regulation":** UN 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G., 9

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- Richtlinie 2012/18/EU
- Namentlich aufgeführte gefährliche Stoffe - ANHANG I Keiner der Inhaltsstoffe ist enthalten.
- Seveso-Kategorie E2 Gewässergefährdend
- Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 200 t
- Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 500 t
- VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII Beschränkungsbedingungen: 3
- Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II  
Keiner der Inhaltsstoffe ist enthalten.
- VERORDNUNG (EU) 2019/1148
- Anhang I - BESCHRÄNKTE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE (Oberer Konzentrationsgrenzwert für eine Genehmigung nach Artikel 5 Absatz 3)  
Keiner der Inhaltsstoffe ist enthalten.
- Anhang II - MELDEPFLICHTIGE AUSGANGSSTOFFE FÜR EXPLOSIVSTOFFE  
Keiner der Inhaltsstoffe ist enthalten.
- Verordnung (EG) Nr. 273/2004 betreffend Drogenausgangsstoffe  
Keiner der Inhaltsstoffe ist enthalten.
- Verordnung (EG) Nr. 111/2005 zur Festlegung von Vorschriften für die Überwachung des Handels mit Drogenaustauschstoffen zwischen der Gemeinschaft und Drittländern  
Keiner der Inhaltsstoffe ist enthalten.
- Nationale Vorschriften:
- Wassergefährdungsklasse: WGK I (Selbsteinstufung): schwach wassergefährdend.
- Sonstige Vorschriften, Beschränkungen und Verbotverordnungen
- Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57  
61788-32-7 | hydrogenated terphenyl
- **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.

- **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)

(Fortsetzung auf Seite 8)

**Sicherheitsdatenblatt**  
gemäß 1907/2006/EG, Artikel 31

Druckdatum: 16.08.2022

überarbeitet am: 16.08.2022

**Handelsname: EMS 250 Immersion Oil**

(Fortsetzung von Seite 7)

*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)**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Skin Irrit. 2: Hautreizende/-ätzende Wirkung – Kategorie 2**STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3**STOT RE 2: Spezifische Zielorgan-Toxizität (wiederholte Exposition) – Kategorie 2**Aquatic Chronic 2: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 2*

DE

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

Stampato il: 16.08.2022

Revisione: 16.08.2022

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

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** EMS 250 Immersion Oil

· **Articolo numero:** 16005-01, 16005-02, 16005-03, 16005-04

· **UFI:** EVG5-D0A1-J00D-6D7S

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

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

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

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

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

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

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

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

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

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

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

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

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



GHS08 pericolo per la salute

STOT RE 2      H373 Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.



GHS09 ambiente

Aquatic Chronic 2 H411 Tossico per gli organismi acquatici con effetti di lunga durata.



GHS07

Skin Irrit. 2      H315 Provoca irritazione cutanea.

STOT SE 3      H335 Può irritare le vie respiratorie.

· **2.2 Elementi dell'etichetta**

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

Il prodotto è classificato ed etichettato conformemente al regolamento CLP.

(continua a pagina 2)



**Scheda di dati di sicurezza**  
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Denominazione commerciale: EMS 250 Immersion Oil

(Segue da pagina 1)

· **Pittogrammi di pericolo**

GHS07 GHS08 GHS09

· **Avvertenza** Attenzione· **Indicazioni di pericolo**

H315 Provoca irritazione cutanea.

H335 Può irritare le vie respiratorie.

H373 Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.

H411 Tossico per gli organismi acquatici con effetti di lunga durata.

· **Consigli di prudenza**

P260 Non respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol.

P280 Indossare guanti di protezione.

P304+P340 IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione.

P312 In caso di malessere, contattare un CENTRO ANTIVELENI/un medico.

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:**

61788-32-7 hydrogenated terphenyl

**SEZIONE 3: Composizione/informazioni sugli ingredienti**· **3.2 Caratteristiche chimiche: Miscela**· **Descrizione:** Miscela delle seguenti sostanze con additivi non pericolosi.· **Sostanze pericolose:**

|            |   |           |
|------------|---|-----------|
| 61788-32-7 | hydrogenated terphenyl<br>Sostanza vPvB non classificata.<br>Sostanza con un limite comunitario di esposizione sul posto di lavoro. | >10- ≤25% |
|------------|---|-----------|

· **SVHC**

61788-32-7 hydrogenated terphenyl

· **Ulteriori indicazioni:** Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16**SEZIONE 4: Misure di primo soccorso**· **4.1 Descrizione delle misure di primo soccorso**· **Inalazione:** Portare in zona ben areata, in caso di disturbi consultare il medico.· **Contatto con la pelle:** Generalmente il prodotto non è irritante per la pelle.· **Contatto con gli occhi:** Lavare con acqua corrente per alcuni minuti tenendo le palpebre ben aperte.· **Ingestione:** Se il dolore persiste consultare il medico.· **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.

(continua a pagina 3)

**Scheda di dati di sicurezza**  
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**Denominazione commerciale: EMS 250 Immersion Oil**

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- **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
Non sono disponibili altre informazioni.

### SEZIONE 5: Misure antincendio

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

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

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.
- **6.2 Precauzioni ambientali:** Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**  
Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).
- **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.  
Per informazioni relative allo smaltimento vedere Capitolo 13.

### SEZIONE 7: Manipolazione e immagazzinamento

- **7.1 Precauzioni per la manipolazione sicura** Per un uso corretto non sono necessari provvedimenti particolari.
- **Indicazioni in caso di incendio ed esplosione:** Non sono richiesti provvedimenti particolari.
- **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:** Nessuno.
- **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:**

#### 61788-32-7 hydrogenated terphenyl

|     |   |
|-----|---|
| TWA | Valore a lungo termine: 4,9 mg/m <sup>3</sup> , 0,5 ppm |
| VL  | Valore a breve termine: 48 mg/m <sup>3</sup> , 5 ppm    |
|     | Valore a lungo termine: 19 mg/m <sup>3</sup> , 2 ppm    |

- **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:** Lavarsi le mani prima dell'intervallo o a lavoro terminato.
- **Maschera protettiva:** Non necessario.

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**Scheda di dati di sicurezza**  
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Denominazione commerciale: EMS 250 Immersion Oil

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- **Guanti protettivi:**

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

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

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

- **Materiale dei guanti**

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

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

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

- **Occhiali protettivi:** Si consiglia l'uso di occhiali protettivi durante il travaso.

### SEZIONE 9: Proprietà fisiche e chimiche

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

- **Indicazioni generali**

- **Aspetto:**

*Forma: Oleoso*

*Colore: Incolore*

- **Odore:** *Inodore*

- **Soglia olfattiva:** *Non definito.*

- **valori di pH:** *Non definito.*

- **Cambiamento di stato**

*Punto di fusione/punto di congelamento: Non definito.*

*Punto di ebollizione iniziale e intervallo di ebollizione: Non definito.*

- **Punto di infiammabilità:** *Non applicabile.*

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

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

- **Temperatura di autoaccensione:** *Prodotto non autoinfiammabile.*

- **Proprietà esplosive:** *Prodotto non esplosivo.*

- **Limiti di infiammabilità:**

*Inferiore: Non definito.*

*Superiore: Non definito.*

- **Tensione di vapore:** *Non definito.*

- **Densità a 20 °C:** *1,05 g/cm<sup>3</sup>*

- **Densità relativa** *Non definito.*

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

- **Velocità di evaporazione** *Non definito.*

- **Solubilità in/Miscibilità con acqua:**

*Poco e/o non miscibile.*

- **Coefficiente di ripartizione: n-ottanolo/acqua:** *Non definito.*

- **Viscosità:**

*Dinamica: Non definito.*

(continua a pagina 5)

**Scheda di dati di sicurezza**  
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**Denominazione commerciale: EMS 250 Immersion Oil**

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|  |  |
|--|--|
| <b>Cinematica:</b>                         | Non definito.                            |
| <b>· Tenore del solvente:<br/>VOC (CE)</b> | 0,00 %                                   |
| <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** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea**  
Provoca irritazione cutanea.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **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** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Può irritare le vie respiratorie.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Può provocare danni agli organi in caso di esposizione prolungata o ripetuta.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 1 (D) (Autoclassificazione): poco pericoloso

(continua a pagina 6)

**Scheda di dati di sicurezza**  
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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:**

61788-32-7 | hydrogenated terphenyl

· **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

**SEZIONE 13: Considerazioni sullo smaltimento**

**13.1 Metodi di trattamento dei rifiuti**

· **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.

· **Imballaggi non puliti:**

· **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

**SEZIONE 14: Informazioni sul trasporto**

**14.1 Numero ONU**

· **ADR, IMDG, IATA** UN3082

**14.2 Nome di spedizione dell'ONU**

· **ADR** 3082 MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S.  
 · **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT  
 · **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**14.3 Classi di pericolo connesso al trasporto**

· **ADR, IMDG, IATA**



· **Classe** 9 Materie ed oggetti pericolosi diversi  
 · **Etichetta** 9

**14.4 Gruppo di imballaggio**

· **ADR, IMDG, IATA** non applicabile

**14.5 Pericoli per l'ambiente:**

· **Marine pollutant:** Simbolo (pesce e albero)  
 · **Marcatura speciali (ADR):** Simbolo (pesce e albero)  
 · **Marcatura speciali (IATA):** Simbolo (pesce e albero)

· **14.6 Precauzioni speciali per gli utilizzatori** Attenzione: Materie ed oggetti pericolosi diversi

**14.7 Trasporto di rinfuse secondo l'allegato II di**

**MARPOL ed il codice IBC** Non applicabile.

(continua a pagina 7)

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

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Denominazione commerciale: EMS 250 Immersion Oil

(Segue da pagina 6)

|                          |   |
|--------------------------|---|
| · UN "Model Regulation": | UN 3082 MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S., 9 |
|--------------------------|---|

### SEZIONE 15: Informazioni sulla regolamentazione

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

- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** Nessuno dei componenti è contenuto.
- **Categoria Seveso E2** Pericoloso per l'ambiente acquatico
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore 200 t**
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore 500 t**
- **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** Restrizioni: 3

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

|                                     |
|-------------------------------------|
| Nessuno dei componenti è contenuto. |
|-------------------------------------|

- **REGOLAMENTO (UE) 2019/1148**

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

|                                     |
|-------------------------------------|
| Nessuno dei componenti è contenuto. |
|-------------------------------------|

|  |
|--|
| · <b>Allegato II - PRECURSORI DI ESPLOSIVI SOGGETTI A SEGNALAZIONE</b> |
|--|

|                                     |
|-------------------------------------|
| Nessuno dei componenti è contenuto. |
|-------------------------------------|

|  |
|--|
| · <b>Regolamento (CE) n. 273/2004 relativo ai precursori di droghe</b> |
|--|

|                                     |
|-------------------------------------|
| Nessuno dei componenti è contenuto. |
|-------------------------------------|

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

|                                     |
|-------------------------------------|
| Nessuno dei componenti è contenuto. |
|-------------------------------------|

- **Disposizioni nazionali:**

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

|  |
|--|
| · <b>Sostanze estremamente preoccupanti (SVHC) ai sensi della regolamento REACH, articolo 57</b> |
|--|

|                                     |
|-------------------------------------|
| 61788-32-7   hydrogenated terphenyl |
|-------------------------------------|

- **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.

- **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)

PBT: Persistent, Bioaccumulative and Toxic

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**Scheda di dati di sicurezza**  
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*SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Skin Irrit. 2: Corrosione/irritazione della pelle – Categoria 2**STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3**STOT RE 2: Tossicità specifica per organi bersaglio (esposizione ripetuta) – Categoria 2**Aquatic Chronic 2: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico – Categoria 2*

IT

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.08.16

개정: 2022.08.16

## 1 화학제품과 회사에 관한 정보

### 제품제품제명

· 제품명: EMS 250 Immersion Oil

· 상품번호: 16005-01, 16005-02, 16005-03, 16005-04

해당 해당 물질이나 혼합물(관련 관련 용도 및 사용 금지 용도)

· 제품의 권고 용도와 사용 용도에 대한 제한 사항 S 250 Immersion Oil

· 제품의 권고 용도와 사용 용도에 대한 제한 사항 시험 실 화 학 품

· 안전데이터표(Safety Data Sheet)내 공급 업체 관련 정보

· 제조자/수입자/유통 업체 정보

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

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

email: info@emsdiasum.com

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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

· 추가 정안 정보: 특정 위험 가능 product safety department

· 비상 연락 전화번호:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## 2 유해성·위험성

· 순물질 또는 혼합물(의) 분류 분류



건강에 위험

특정 표적 장기 독성 - 반복 노출 - 구분2 H373 장기간 또는 반복 노출 되면 장기에 손상을 일으킬 수 있음



환경

수생 환경 유해성 - 만성 - 구분2

H411 장기적인 영향에 의해 수생 생물에게 유독함



피부 부식성/피부 자극성 - 구분2

H315 피부에 자극을 일으킴

(2 쪽에 계속)



# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2022.08.16

개정: 2022.08.16

**제품명: EMS 250 Immersion Oil**

(1 쪽부터계속)

특정표적장기 독성 - 1회 노출- 구분3 H335 호흡기 자극을 일으킬 수 있음

· 라벨표가요소요소

· 라벨라벨라벨 요소

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

· GHS 그림문자



GHS07 GHS08 GHS09

· 신호어 경고

유해유해유해문구

피부에 자극을 일으킴

호흡기 자극을 일으킬 수 있음

장기간 또는 반복노출 되면 장기에 손상을 일으킬 수 있음

장기적인 영향에 의해 수생생물에게 유독함

· 예방조치문구

분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.

보호장갑 착용.

흡입하면 신선한 공기가 있는 곳으로 옮기고 호흡하기 쉬운 자세로 안정을 취하시오.

몸에 이상이 있을 시 독성물질 센터/병원 연락 필요.

밀봉하여 저장하시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하시오.

기타기타기타성

· PBT(잔류성, 생물농축성, 독성물질) 및 vPvB(고 잔류성, 고 생물농축성 물질)을 포함하는 결과

· PBT(잔류성, 생물농축성, 독성물질)을 포함하지 않음.

· vPvB(고 잔류성, 고 생물농축성 물질)을 포함

61788-32-7 hydrogenated terphenyl

### 3 구성성분의 명칭 및 함유량

· 화학적 특성: 혼합물

설명설명설명: 첨가물 이 함유된 아래에 열거된 물질로 만들어진 혼합물.

· 위험요소요소

61788-32-7 hydrogenated terphenyl

vPvB >10-≤25%

### 4 응급조치 요령

· 응급조치요령 내용내용

· 흡입했을 때: 신선한 공기를 쐬고, 통증이 있을 때는 의료진의 도움을 구한다.

· 피부에 접촉했을 때: 일반적으로 이 제품은 피부에 자극적이지 않다.

· 눈에 눈에 들어갔을 때: 흐르는 물에 눈을 몇분동안 씻어낸다.

· 먹었을 때: 증상이 지속될 경우에는 의사와 상담한다.

기타기타기타의 주의사항:

가장가장중요한정보: 독성물질의 영향에 대한 정보가 존재하지 않습니다.

· 즉각적인 의료처리 및 특별치료가 필요함을 시사하는 징후 중 구체적인 정보가 존재하지 않습니다.

KR

(3 쪽에계속)

인쇄일자: 2022.08.16

개정: 2022.08.16

제품명: EMS 250 Immersion Oil

(2 쪽부터 계속)

### 5 폭발·화재시 대처방법

- 소화제
  - 적절한 소화제: 주 변 환 경에 맞 는 화 재 진 화 방 법 을 사 용 한 다.
  - 본 화학물질이나 혼합물에서 발생 하는 특 별 특 성 추 가 적 인 정 보 가 존 재 하 지 않 습 니 다.
  - 소방 관 에 대 한 대 응 사 항
- 화재 화 재 진 화 방 법 및 방 화 설 비 보 호 구 및 예 방 조 치: 특 별 한 조 치 가 필 요 없 음.

### 6 누출 사고 시 대처방법

- 개인적 예방조치, 보호장비 및 응급 처치 절차 필요 없음.
- 환경 환경 보 호 방 조 치: 하 수 도 망 / 해 수 면 위 의 물 / 지 하 수 로 도 달 하 지 않 게 한 다.
- 밀폐 밀폐 용 기 정 화 정 화 기 소 재 소 재
- 액 체 가 혼 합 된 물 질 (모 래, 규 조 토, 산 성 결 합 물, 일 반 결 합 물, 톱 밥) 에 흡 입 되 도 록 한 다.
- 석 인 석 인 석 인 조 치
- 안 전 관 리 에 대 한 정 보 는 제 7 장 을 참 고 하 시 오.
  - 개 인 보 호 장 비 에 대 한 정 보 는 제 8 장 을 참 고 하 시 오.
  - 쓰 레 기 처 리 에 대 한 정 보 는 제 13 장 을 참 고 하 시 오.

### 7 취급 및 저장방법

- 취급 취급 취급
- 안 전 안 전 방 조 치 을 위 한 예 방 조 치 을 바 르 게 사 용 할 경 우 에 는 특 별 한 주 의 가 필 요 없 다.
- 화 재 화 재 진 화 방 법 및 방 화 설 비 보 호 구 및 예 방 조 치: 특 별 한 조 치 가 필 요 없 음.
- 혼 합 위 험 성 등 안 전 방 조 치 조 건
- 보 관 보 관 보 관
- 안 전 방 조 치 방 조 치 등 특 별 한 요 구 사 항 이 없 음.
  - 하 나 의 공 공 장 부 보 호 장 비 에 대 한 보 호 장 비 등 필 요 없 음
  - 보 관 조 건 에 관 한 추 가 정 보 정 보 없 음
  - 구 체 적 최 종 최 종 자 추 가 적 인 정 보 가 존 재 하 지 않 습 니 다.

### 8 누출방지 및 개인보호구

- 첨단시설 디자인에 대한 추가정보: 더 이상 의 자 료 는 없 음. 항 목 7 을 참 고 하 시 오.

통제 물질 번호

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| · 화학물질의 노출기준, 생물학적 노출기준 등:        |                                      |
| 61788-32-7 hydrogenated terphenyl |                                      |
| REL (US)                          | 장기간의값: 5 mg/m <sup>3</sup> , 0.5 ppm |
| TLV (US)                          | 장기간의값: 0.5 ppm<br>nonirradiated      |

- 추 가 정 보 정 보 조 할 당 시 에 유 호 한 목 록 을 기 초 로 사 용 했 다.

노출 통제 통제

개인 개인 보호구

- 일반적 보호조치 및 위생조치: 휴 식 전 이 나 작 업 이 끝 날 때 마 다 손 을 씻 는 다.
- 호흡기 보호 필요 없음.

보 호 보 호 보 호

- 장갑재질은 제품 / 원료 / 조제를 통과시키지 않아야 하고, 내구성이 있어야 한다.
- 테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.

(4 쪽에 계속)

# 물질안전보건자료 GHS에 따라라

인쇄일자: 2022.08.16

개정: 2022.08.16

**제품명: EMS 250 Immersion Oil**

(3 쪽부터 계속)

- 투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.
- **장갑의 재료**  
적합한 장갑의 선정은 재질 차이뿐만 아니라 품질 기준의 차이도 고려하여 이루어져야 하고 제조업종에 따라서도 다르게 선정되어야 한다. 제품은 다양한 재료로부터의 조제로 이루어지는 것이기 때문에, 장갑재질의 안정성은 사전에 예측되어질 수 있는 것이 아니고, 반드시 사용 전에 (그 안전성이) 체크되어져야 한다.
- **장갑 재료의 투과 시간** 정확한 관통 시간은 보호장갑 제조자에 의하여 인지도되고, 준수되어야 한다.
- **눈 보호** 눈 보호 장갑을 착용할 경우 주천할 만한 보안경.

## 9 물리화학적 특성

기본 물리화학적 특성에 대한 정보

|                             |                          |
|-----------------------------|--------------------------|
| · <b>일반정보</b>               |                          |
| 외형의 외형                      |                          |
| · <b>물리적 상태</b>             | 기름의                      |
| · <b>색:</b>                 | 색소가 없는                   |
| · <b>냄새</b>                 | 무취의                      |
| · <b>후각역치</b>               | 알맞지 않다.                  |
| · <b>pH:</b>                | 알맞지 않다.                  |
| · <b>상태변화</b>               |                          |
| · <b>녹는 점/어는 점:</b>         | 맞지 않는                    |
| · <b>초기 녹는 점과 끝 녹는 점 범위</b> | 맞지 않는                    |
| · <b>인화점:</b>               | 해당 사항 없음.                |
| · <b>인화성 고체/기체</b>          | 해당 사항 없음.                |
| · <b>분해 온도</b>              | 알맞지 않다.                  |
| · <b>자기점화:</b>              | 이 제품은 자연발화성이 없다.         |
| · <b>폭발위험:</b>              | 이 제품은 폭발위험성이 없다.         |
| · <b>인화 안정성</b>             | 하한                       |
| · <b>아래로:</b>               | 알맞지 않다.                  |
| · <b>위로 위로</b>              | 알맞지 않다.                  |
| · <b>중기압:</b>               | 알맞지 않다.                  |
| · <b>밀도 밀도</b>              | 1.05 g/cm <sup>3</sup>   |
| · <b>비중 비중</b>              | 알맞지 않다.                  |
| · <b>중기밀도:</b>              | 알맞지 않다.                  |
| · <b>증발 증발 속도</b>           | 알맞지 않다.                  |
| · <b>용해도:</b>               |                          |
| · <b>물:</b>                 | 각각의 경우에 따라서는 거의 혼합할 수 없는 |
| · <b>n 옥탄올/물 분배계수:</b>      | 알맞지 않다.                  |
| · <b>점도 점도</b>              |                          |
| · <b>역학성:</b>               | 알맞지 않다.                  |
| · <b>동점성:</b>               | 알맞지 않다.                  |
| · <b>용매 내용물</b>             |                          |
| · <b>VOC (EU)</b>           | 0.00 %                   |
| · <b>고체 양 함량</b>            | 0.0 %                    |

(5 쪽에 계속)

# 물질안전보건자료 GHS에 따라라다

인쇄일자: 2022.08.16

개정: 2022.08.16

제품명: EMS 250 Immersion Oil

(4 쪽부터 계속)

기타 정보 정보 추가적인 정보가 존재하지 않습니다.

## 10 안정성 및 반응성

- 반응성 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성
- 화학적 안정성 유해 반응의 가능성 / 피해 야한 조건 조건 정에 따라 사용 할 경우 해체는 없다
- 유해 반응 가능성 위험한 반응으로는 알려지지 않았다.
- 피해 야한 조건 조건 추가적인 정보가 존재하지 않습니다.
- 혼합 혼합 혼합 혼합 물질 추가적인 정보가 존재하지 않습니다.
- 유해 분 해 물질: 위험성 있는 분 해 물 들 은 알려지지 않았다.

## 11 독성에 관한 정보

- 독성학적 영향에 대한 정보
- 급성 독성 독성 독성
- 일차적 자극 효과
- 피부 피부 피부 자극 또는 자극 성: 무 자극
- 심한 심한 심한 심한 자극 성: 무 자극.
- 감각 화: 민감한 영향 이 없는 것으로 알려 져 있다.

## 12 환경에 미치는 영향

- 독성 독성 독성
- 수생 독성: 추가적인 정보가 존재하지 않습니다.
- 지속성 및 분해성 추가적인 정보가 존재하지 않습니다.
- 환경 시스템에서의 행동:
- 생물 농 축 잠재 성 추가적인 정보가 존재하지 않습니다.
- 토양 내 이동 성 추가적인 정보가 존재하지 않습니다.
- 추가적인 생태학 정보 정보
- 일반 일반 일반 일반 특징
- 수질 오염 등급 1 ( 자체 등급 분류): 약하게 수질 오염 이 된
- 희석 시키지 않은 채 대량으로 지 하 수 나, 하 천 으로 그리 고 하 수 도 망 에 도 달 하지 않 게 한 다.
- PBT(잔류성, 생물 농 축 성, 물 질 분 쪼 림) 및 vPvB(고 잔류성, 고 생물 농 축 성, 물 질 분 쪼 림)에 걸 리 지 않 겠 다.
- PBT(잔류성, 생물 농 축 성, 물 질 분 쪼 림) 당 사 항 없 음.

· vPvB(고 잔류성, 고 생물 농 축 성) 물 질 분 쪼 림

61788-32-7 hydrogenated terphenyl

기타 기타 기타 용 추가적인 정보가 존재하지 않습니다.

## 13 폐기시 주의사항

- 폐 기 물 의 처 리 처 리 방 법
- 권 고 권 고 권 고 처 리 와 함 께 처 리 되 어 서 는 안 된 다. 하 수 도 망 으 로 유 입 되 서 는 안 된 다.

(6 쪽에 계속)

# 물질안전보건자료

## GHS에 따라 라다

인쇄일자: 2022.08.16

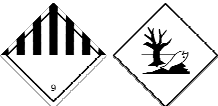
개정: 2022.08.16

**제품명:** EMS 250 Immersion Oil

(5 쪽부터 계속)

· 비위생적 포장포장  
권고 권고 권고국의 지침에 입각한 쓰레기 처리.

### 14 운송에 필요한 정보

|  |   |
|--|---|
| 유엔 유엔 유엔 번호<br>· ADR, IMDG, IATA   | UN3082  |
| 적정적정적정명<br>· ADR<br>· IMDG<br>· IATA   | 3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S.<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S., MARINE POLLUTANT<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. |
| 교통 교통 교통의 위험 클래스<br>· ADR, IMDG, IATA<br> |   |
| 등급 등급 등급<br>· 위험물 라벨라벨   | 9 여러모로 위험한 물질과 물체<br>9  |
| 용기 등급<br>· ADR, IMDG, IATA   | 누락되다  |
| 환경적 유해물질:<br>· 해양오염물질:<br>특수 위험물 라벨라벨(R):<br>특수 위험물 라벨라벨(A):   | 심벌 (물고기와 나무)<br>심벌 (물고기와 나무)<br>심벌 (물고기와 나무)  |
| 이 용기 특별 특별 조치  | 경고: 여러모로 위험한 물질과 물체   |
| · MARPOL 73/78(선박으로부터의 해양오염방지협약) 부속서 2 및 IBC Code(국제선적화물코드)에 따른 벌크 물질 운송 운송  | 해당사항 없음.  |
| · UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9   |   |

### 15 법적 규제 현황

|  |
|--|
| · 산업안전보건법에 의해 규제<br>제조제 조제 조제 물질:<br>어떠한 내용물도 목록화 되어 있지 않다 |
| · 허가대상 물질:<br>어떠한 내용물도 목록화 되어 있지 않다                        |
| · 관리대상 유해물질:<br>어떠한 내용물도 목록화 되어 있지 않다                      |

(7 쪽에 계속)

# 물질안전보건자료 GHS에 따라라따

인쇄일자: 2022.08.16

개정: 2022.08.16

**제품명: EMS 250 Immersion Oil**

(6 쪽부터 계속)

**· 작업환경 측정 대상 유해인자**

어떠한 내용물도 목록화 되어있지 않다

**· 특수건강 점검 대상 유해인자**

어떠한 내용물도 목록화 되어있지 않다

해당 해당 물질 또는 혼합물에 대한 안전보건자료 작성 여부를 법률적인 정보가 존재하지 않습니다.

**· Korean Existing Chemical Inventory**

61788-32-7 hydrogenated terphenyl

KE-20176

**· 화학물질관리법**

**· 사고대비물질**

어떠한 내용물도 목록화 되어있지 않다

**· 금지물질**

어떠한 내용물도 목록화 되어있지 않다

**· 제한물질**

어떠한 내용물도 목록화 되어있지 않다

**· 유독물질**

어떠한 내용물도 목록화 되어있지 않다

**· 허가물질**

어떠한 내용물도 목록화 되어있지 않다

**등록 등록 물질 또는 선제 대상 화학물질**

어떠한 내용물도 목록화 되어있지 않다

**· '21년까지 등록하여야 할 암, 돌연변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존 화학물질**

어떠한 내용물도 목록화 되어있지 않다

**· 중점관리물질(제관전 관련관련)**

모든 내용물이 목록화 되어있다

**· GHS 라벨 요소**

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

**· GHS 그림자**



GHS07   GHS08   GHS09

**· 신호어 경고**

**유해유해위험문구**

- 피부에 자극을 일으킴
- 호흡기 자극을 일으킬 수 있음
- 장기간 또는 반복노출 되면 장기에 손상을 일으킬 수 있음
- 장기적인 영향에 의해 수생생물에게 유독함

**· 예방조치문구**

- 분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.
- 보호장갑 착용.
- 흡입하면 신선한 공기가 있는 곳으로 옮기고 호흡하기 쉬운 자세로 안정을 취하십시오.
- 몸에 이상이 있을 시 독성물질 센터/병원 연락 필요.
- 밀봉하여 저장하십시오.
- (지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

(8 쪽에 계속)

# 물질안전보건자료

## GHS에 따라라따

인쇄일자: 2022.08.16

개정: 2022.08.16

**제품명: EMS 250 Immersion Oil**

· **화학물질 안전성 평가** 화학물질 안전성 평가가 수행되지 않음

(7 쪽부터 계속)

### 16 그 밖의 참고사항

이 보고는 우리 지식에 대한 오늘날의 상태에 대하여 평가하고 있다, 하지만 이 보고서는 생산 특성에 관한 보증은 기술하지 않았으며 계약적인 법률 관계에 기반을 두고 있지 않다

· **담당자:**

최초 **최초 작성 일자:** 2022.08.16

개정 **개정 일자:** 1 / 2022.08.16

· **약어와 두문자어:**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

KR

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

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

#### · 1.1 Identificador del producto

· **Nombre comercial:** EMS 250 Immersion Oil

· **Número del artículo:** 16005-01, 16005-02, 16005-03, 16005-04

· **UFI:** EVG5-D0A1-J00D-6D7S

#### · 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](mailto:info@emsdiasum.com)

[www.emsdiasum.com](http://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](mailto: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**



GHS08 peligro para la salud

STOT RE 2

H373 Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.



GHS09 medio ambiente

Aquatic Chronic 2

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.



GHS07

Skin Irrit. 2

H315 Provoca irritación cutánea.

STOT SE 3

H335 Puede irritar las vías respiratorias.

#### · 2.2 Elementos de la etiqueta

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

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.

( se continua en página 2 )



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

Nombre comercial: EMS 250 Immersion Oil

( se continua en página 1 )

· **Pictogramas de peligro**

GHS07 GHS08 GHS09

· **Palabra de advertencia** Atención· **Indicaciones de peligro**

H315 Provoca irritación cutánea.

H335 Puede irritar las vías respiratorias.

H373 Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

· **Consejos de prudencia**

P260 No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.

P280 Llevar guantes de protección.

P304+P340 EN CASO DE INHALACIÓN: Transportar a la persona al aire libre y mantenerla en una posición que le facilite la respiración.

P312 Llamar a un CENTRO DE TOXICOLOGÍA/médico si la persona se encuentra mal.

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:**

61788-32-7 hydrogenated terphenyl

### SECCIÓN 3: Composición/información sobre los componentes

· **3.2 Caracterización química: Mezclas**· **Descripción:** Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas.· **Componentes peligrosos:**

|            |  |           |
|------------|--|-----------|
| 61788-32-7 | hydrogenated terphenyl<br>Sustancia mPmB no clasificada.<br>Sustancia a la que se aplica un límite comunitario de exposición en el lugar de trabajo. | >10- ≤25% |
|------------|--|-----------|

· **SVHC**

|            |                        |
|------------|------------------------|
| 61788-32-7 | hydrogenated terphenyl |
|------------|------------------------|

· **Indicaciones adicionales:** El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

### SECCIÓN 4: Primeros auxilios

· **4.1 Descripción de los primeros auxilios**· **En caso de inhalación del producto:** Suministrar aire fresco. En caso de trastornos, consultar al médico.· **En caso de contacto con la piel:** Por regla general, el producto no irrita la piel.· **En caso de con los ojos:** Limpiar los ojos abiertos durante varios minutos con agua corriente.· **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.

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

Nombre comercial: EMS 250 Immersion Oil

( se continua en página 2 )

- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**  
No existen más datos relevantes disponibles.

### SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.
- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** No se requieren medidas especiales.

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

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia** No es necesario.
- **6.2 Precauciones relativas al medio ambiente:**  
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**  
Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).
- **6.4 Referencia a otras secciones**  
Ver capítulo 7 para mayor información sobre una manipulación segura.  
Ver capítulo 8 para mayor información sobre el equipo personal de protección.  
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

### SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura**  
Si se manipulan correctamente, no se requieren medidas especiales.
- **Prevención de incendios y explosiones:** No se requieren medidas especiales.
- **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:** Ningunos, -as.
- **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:**

61788-32-7 hydrogenated terphenyl

|     |   |
|-----|---|
| LEP | Valor de corta duración: 50 mg/m <sup>3</sup> , 5 ppm |
|     | Valor de larga duración: 20 mg/m <sup>3</sup> , 2 ppm |
| VLI |   |

- **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:** Lavarse las manos antes de las pausas y al final del trabajo.

( se continua en página 4 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

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Nombre comercial: EMS 250 Immersion Oil

( se continua en página 3 )

· **Protección respiratoria:** No es necesario.

· **Protección de manos:**

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser evaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· **Protección de ojos:** Se recomienda el uso de gafas de protección durante el trasvase del producto.

### SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**

· **Datos generales**

· **Aspecto:**

Forma: Aceitoso

Color: Incoloro

· **Olor:** Inodoro

· **Umbral olfativo:** No determinado.

· **valor pH:** No determinado.

· **Cambio de estado**

Punto de fusión/punto de congelación: Indeterminado.

Punto inicial de ebullición e intervalo de ebullición: Indeterminado.

· **Punto de inflamación:** No aplicable.

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

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

· **Temperatura de auto-inflamación:** El producto no es autoinflamable.

· **Propiedades explosivas:** El producto no es explosivo.

· **Límites de explosión:**

Inferior: No determinado.

Superior: No determinado.

· **Presión de vapor:** No determinado.

· **Densidad a 20 °C:** 1,05 g/cm<sup>3</sup>

· **Densidad relativa** No determinado.

· **Densidad de vapor** No determinado.

· **Tasa de evaporación:** No determinado.

· **Solubilidad en / miscibilidad con agua:**

Poco o no mezclable.

· **Coefficiente de reparto: n-octanol/agua:** No determinado.

( se continua en página 5 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

Nombre comercial: EMS 250 Immersion Oil

( se continua en página 4 )

|  |  |
|--|--|
| · <b>Viscosidad:</b>                   |  |
| <b>Dinámica:</b>                       | No determinado.                              |
| <b>Cinemática:</b>                     | No determinado.                              |
| · <b>Concentración del disolvente:</b> |  |
| <b>VOC (CE)</b>                        | 0,00 %                                       |
| <b>Contenido de cuerpos sólidos:</b>   | 0,0 %  |
| · <b>9.2 Otros datos</b>               | No existen más datos relevantes disponibles. |

### SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas**  
Provoca irritación cutánea.
- **Lesiones o irritación ocular graves**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **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** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
Puede irritar las vías respiratorias.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.
- **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.

( se continua en página 6 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

Nombre comercial: EMS 250 Immersion Oil

( se continua en página 5 )

· **Indicaciones medioambientales adicionales:**· **Indicaciones generales:**

Nivel de riesgo para el agua 1 (autoclasiificación): escasamente peligroso para el agua

En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.

· **12.5 Resultados de la valoración PBT y mPmB**· **PBT:** No aplicable.· **mPmB:**

61788-32-7 hydrogenated terphenyl

· **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.

### SECCIÓN 14: Información relativa al transporte

· **14.1 Número ONU**· **ADR, IMDG, IATA**

UN3082

· **14.2 Designación oficial de transporte de las Naciones Unidas**· **ADR**

3082 SUSTANCIA LÍQUIDA PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P.

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

· **14.3 Clase(s) de peligro para el transporte**· **ADR, IMDG, IATA**· **Clase**

9 Materias y objetos peligrosos diversos

· **Etiqueta**

9

· **14.4 Grupo de embalaje**· **ADR, IMDG, IATA**

suprimido

· **14.5 Peligros para el medio ambiente:**· **Contaminante marino:**

Símbolo (pez y árbol)

· **Marcado especial (ADR):**

Símbolo (pez y árbol)

· **Marcado especial (IATA):**

Símbolo (pez y árbol)

· **14.6 Precauciones particulares para los usuarios**

Atención: Materias y objetos peligrosos diversos

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# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 16.08.2022

Revisión: 16.08.2022

Nombre comercial: EMS 250 Immersion Oil

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- **14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC** No aplicable.
- **"Reglamentación Modelo" de la UNECE:** UN 3082 SUSTANCIA LÍQUIDA PELIGROSA PARA EL MEDIO AMBIENTE, N.E.P., 9

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** ninguno de los componentes está incluido en una lista
- **Categoría Seveso E2** Peligroso para el medio ambiente acuático
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 200 t
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 500 t
- **REGLAMENTO (CE) n° 1907/2006 ANEXO XVII** Restricciones: 3

- **Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II**

ninguno de los componentes está incluido en una lista

- **REGLAMENTO (UE) 2019/1148**

- **Anexo I - PRECURSORES DE EXPLOSIVOS RESTRINGIDOS (Valor límite superior a efectos de la concesión de licencias con arreglo al artículo 5, apartado 3)**

ninguno de los componentes está incluido en una lista

- **Anexo II - PRECURSORES DE EXPLOSIVOS NOTIFICABLES**

ninguno de los componentes está incluido en una lista

- **Reglamento (CE) no 273/2004 sobre precursores de drogas**

ninguno de los componentes está incluido en una lista

- **Reglamento (CE) N o 111/2005 por el que establecen normas para la vigilancia del comercio de precursores de drogas entre la Comunidad y terceros países**

ninguno de los componentes está incluido en una lista

- **Disposiciones nacionales:**

- **Demás disposiciones, limitaciones y decretos prohibitivos**

- **Sustancias altamente preocupantes (SVHC) según REACH, artículo 57**

61788-32-7 hydrogenated terphenyl

- **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.

- **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

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Skin Irrit. 2: Corrosión o irritación cutáneas – Categoría 2**STOT SE 3: Toxicidad específica en determinados órganos ( exposición única) – Categoría 3**STOT RE 2: Toxicidad específica en determinados órganos (exposiciones repetidas) – Categoría 2**Aquatic Chronic 2: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 2*

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