| Destroop | hom d' |
|----------|-----------|
| Perma | |
| | Adhesives |

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Permabond TA4630A

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

| SECTION 1. Identification of the subs | stance/mix | xture and of the com | pany/undertakir | ıg |
|--|---|---|-----------------|----------|
| 1.1. Product identifier | | | | |
| Product name | Permabond | TA4630A | | |
| 1.2. Relevant identified uses of the substance or m | ixture and us | es advised against | | |
| Intended use | Adhesive | | | |
| Identified Uses Use | Industrial | Professional | C | Consumer |
| USE | \checkmark | \checkmark | | - |
| 1.3. Details of the supplier of the safety data sheet | | | | |
| Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet Supplier: | Niederkass 40547 Tel. info.europe Permabond | Engineering Adhesives eler Lohweg 18 Düsseldorf Germany +44 (0)1962 711 661 @permabond.com Engineering Adhesives Ltd y, Colden Common, | | |
| | tel: +44 (0) | , Hampshire SO21 1WP, UK 1962 711 661 europe@permabond.com | | |
| 1.4. Emergency telephone number | | | | |
| For urgent inquiries refer to | +44 (0)1962 | 711 661 (8.00 am-5.00 pm | Mon-Fri) | |
| | CHEMTREC | CUK: +(44)-870-8200418 | | |
| | | Ireland: +(353)-19014670 | | |
| | | Australia: +(61)-290372994 | | |
| | CHEMTREC | New Zealand: +(64)-980100 | 34 | |

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

| Hazard classification and indication: | | |
|--|-------|--|
| Reproductive toxicity, category 2 | H361d | Suspected of damaging the unborn child. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage. |
| Skin sensitization, category 1A | H317 | May cause an allergic skin reaction. |
| Hazardous to the aquatic environment, chronic toxicity, category 2 | H411 | Toxic to aquatic life with long lasting effects. |



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SECTION 2. Hazards identification ... / >>

2.2. Label elements

Signal words:

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Danger

| Hazard statements: | |
|---------------------------|---|
| H361d | Suspected of damaging the unborn child. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Precautionary statements: | |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / protective clothing / eye protection / face protection. |
| P302+P352 | In case of contact with the skin: wash abundantly with soap and water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice / attention. |
| O and a large | |
| Contains: | 2-PHENOXYETHYL METHACRYLATE TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE P-TOLUENESULPHONYL CHLORIDE |

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|----------------|----------------|-----------------|---|
| 2-PHENOXYE | THYL METHACR | YLATE | |
| INDEX | | 60 ≤ x < 100 | Repr. 2 H361d, Skin Sens. 1A H317, Aquatic Chronic 2 H411 |
| EC | 234-201-1 | | |
| CAS | 10595-06-9 | | |
| REACH Reg. | 01-2120752383- | 55-XXXX | |
| TRIS(2-HYDR | OXYETHYL) ISOC | YANURATE TRIACR | YLATE |
| INDEX | | 5≤x< 10 | Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411 |
| EC | 254-843-6 | | |
| CAS | 40220-08-4 | | |
| REACH Reg. | 01-2120741502- | 64-XXXX | |
| P-TOLUENES | ULPHONYL CHL | ORIDE | |
| INDEX | | 3≤x< 5 | Met. Corr. 1 H290, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317 |
| EC | 202-684-8 | | |
| CAS | 98-59-9 | | |
| REACH Reg. | 01-2119971273- | 36-XXXX | |



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SECTION 3. Composition/information on ingredients ... / >>

PROPYLIDYNETRIMETHYL TRIMETHACRYLATE

 INDEX
 2,5 ≤ x < 5</th>

 EC
 221-950-4

 CAS
 3290-92-4

 REACH Reg.
 01-2119542176-41-XXXX

Aquatic Chronic 2 H411

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

Skin: Wash the skin thoroughly with soap and water. If symptoms arise, request medical assistance

Eyes: Make sure you have removed any contact lenses before rinsing your eyes. Wash

Readyly and abundantly the eyes with water keeping the eyelids open.

Continue to rinse for at least 15 minutes. Consult a doctor if the discomfort continues.

Ingestion: rinse the mouth with water thoroughly. Make a abundant quantity of water drink.

Do not cause vomiting. Consult a doctor.

Inhalation: move the subject exposed in the open air. Consult a doctor in case of serious symptoms or persistent.

4.2. Most important symptoms and effects, both acute and delayed

Contact with the skin: skin irritation. Mild dermatitis, allergic rash. Contact with eyes: irritating and can cause redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed

Note for the doctor no specific recommendation. Symptomatic treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



SECTION 6. Accidental release measures ... / >>

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Adhesive

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

| edicted no-effect con Normal value in fresh | | | | | | 0.0142 | mg/l | |
|--|----------------|-------------|---------|----------|--------------|----------|---------|----------|
| Normal value in mari | | | | | | - 1 - | • | |
| | | | | | | 0,00142 | mg/l | |
| Normal value for fres | h water sedi | ment | | | | 0,665 | mg/kg/d | |
| Normal value for mar | ine water se | diment | | | | 0,067 | mg/kg/d | |
| Normal value for wat | er, intermitte | nt release | | | | 0,012 | mg/l | |
| Normal value of STP | microorgani | sms | | | | 1,77 | mg/l | |
| Normal value for the | terrestrial co | mpartment | | | | 0,125 | mg/kg/d | |
| alth - Derived no-eff | ect level - D | NEL / DMEL | | | | | | |
| | Effects or | n consumers | | | Effects on w | vorkers | | |
| | Acute | Acute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| Route of exposure | Acute | | | | La sel | | local | systemic |
| Route of exposure | local | systemic | local | systemic | local | systemic | local | Systemic |
| · | | systemic | local | systemic | local | systemic | local | 12 |
| · | | systemic | local | systemic | IOCAI | systemic | IOCAI | 12 |
| Route of exposure Inhalation Skin | | systemic | local | systemic | IOCAI | systemic | IOCAI | |



SECTION 8. Exposure controls/personal protection ... / >>

TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE

| redicted no-effect cor | ncentration | - PNEC | | | | | | |
|---------------------------------------|----------------|-------------|---------|-------------------------|--------------|----------|---------|----------|
| Normal value in fresh | water | | | | | 0,00943 | mg/l | |
| Normal value in marin | 0,00094 | mg/l | | | | | | |
| Normal value for fresh water sediment | | | | | | | mg/kg/d | |
| Normal value for mar | ine water se | diment | | | | 0,062 | mg/kg/d | |
| Normal value for wate | er, intermitte | ent release | | | | 0,0943 | mg/l | |
| Normal value of STP | | | | | | 10 | mg/l | |
| Normal value for the | • | | | | | 0,118 | mg/kg/d | |
| ealth - Derived no-eff | ect level - D | NEL / DMEL | | | | | 0 0 | |
| | Effects or | n consumers | | | Effects on w | orkers | | |
| Route of exposure | Acute | Acute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| Noule of exposure | | | | | | | | |
| | local | systemic | local | systemic | local | systemic | local | systemic |
| Oral | local | systemic | local | systemic 0.08 | local | systemic | local | systemic |
| · | local | systemic | local | 0.08 | local | systemic | local | systemic |
| · | local | systemic | local | | local | systemic | local | systemic |
| Oral | local | systemic | local | 0.08 mg/kg/d 0.29 | local | systemic | local | 1.65 |
| Oral | local | systemic | local | 0.08 mg/kg/d | local | systemic | local | , |

| | | | P-TOLUENESUL | PHONYL CHL | .ORIDE | | | |
|-------------------------|---------------|-------------|--------------|------------|--------------|----------|---------|----------|
| Predicted no-effect con | ncentration | - PNEC | | | | | | |
| Normal value in fresh | water | | | | | 0,1 | mg/l | |
| Normal value in mari | ne water | | | | | 0,01 | mg/l | |
| Normal value of STP | microorgani | sms | | | | 17,3 | mg/l | |
| Health - Derived no-eff | ect level - D | NEL / DMEL | | | | | | |
| | Effects or | n consumers | | | Effects on v | workers | | |
| Route of exposure | Acute | Acute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | local | systemic | local | systemic | local | systemic | local | systemic |
| Inhalation | | | | | | | | 3,5 |
| | | | | | | | | mg/m3 |
| Skin | | | | | | | | 0.5 |
| | | | | | | | | mg/kg |
| | | | | | | | | bw/d |

PROPYLIDYNETRIMETHYL TRIMETHACRYLATE Predicted no-effect concentration - PNEC 0,002 Normal value in fresh water mg/l 0,0002 Normal value in marine water mg/l Normal value for fresh water sediment 0,495 mg/kg/d Normal value for marine water sediment 0,05 mg/kg/d Normal value for water, intermittent release 0,02 mg/l Normal value of STP microorganisms mg/l 10 Normal value for the terrestrial compartment 0,097 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Chronic Acute Acute Chronic Chronic local systemic local systemic local systemic local systemic Oral 1.5 1.5 mg/kg/d Inhalation 14.81 2.6 mg/m3 mg/m3 Skin 4.67 9.33 42 15 mg/kg/d mg/kg/d mg/kg/d mg/kg/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.



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SECTION 8. Exposure controls/personal protection ... / >>

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | | Value | Information |
|--|---|----------------------|--|
| Appearance | | paste | |
| Colour | | black | |
| Odour | | characteristic | |
| Melting point / freezing point | | not available | |
| Initial boiling point | | not available | |
| Flammability | | not available | |
| Lower explosive limit | | not available | |
| Upper explosive limit | | not available | |
| Flash point | > | 100 °C | |
| Auto-ignition temperature | | not available | |
| Decomposition temperature | | not available | |
| pH | | not available | Reason for missing data:substance/mixture is |
| | | | non-soluble (in water) |
| Kinematic viscosity | | not available | |
| Dynamic viscosity | | ~ 400000 mPa.s Thixo | Temperature: 25 °C |
| Solubility | | not available | |
| Partition coefficient: n-octanol/water | | not available | |
| Vapour pressure | | not available | |
| Density and/or relative density | | 1 | |
| Relative vapour density | | not available | |
| Particle characteristics | | not applicable | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

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10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Strong reducing and oxidizing agents.

10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed other unidentified organic compounds.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

ATE (Inhalation) of the mixture:

ACUTE TOXICITY

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

| TRIS(2-HYDROXYETHYL) ISOCYANURATE TR | IACRYLATE |
|---|------------|
| LD50 (Oral): | 2000 mg/kg |
| P-TOLUENESULPHONYL CHLORIDE LD50 (Oral): | 4680 mg/kg |

PROPYLIDYNETRIMETHYL TRIMETHACRYLATE LD50 (Dermal): 2000 mg/kg LD50 (Oral): 2000 mg/kg

@EPY 11.5.2 - SDS 1004.14



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SECTION 11. Toxicological information/>>

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

| 2-PHENOXYETHYL METHACRYLATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants EC10 for Algae / Aquatic Plants | 10 mg/l/96h 1,21 mg/l/48h 4,4 mg/l/72h 0,71 mg/l/72h |
|--|--|
| TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYI LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants | ATE 9,43 mg/l/96h 158,3 mg/l/48h 25,7 mg/l/72h |
| P-TOLUENESULPHONYL CHLORIDE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants | > 100 mg/l/96h > 334 mg/l/48h > 100 mg/l/72h 2,6 mg/l |
| PROPYLIDYNETRIMETHYL TRIMETHACRYLATE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants | 2 mg/l/96h > 9,22 mg/l/48h 3,88 mg/l/72h |



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SECTION 12. Ecological information ... / >>

| SECTION 12. Ecological information / >> | |
|--|--------------------------|
| Chronic NOEC for Fish Chronic NOEC for Algae / Aquatic Plants | 0,138 mg/l 0,177 mg/l |
| 12.2. Persistence and degradability | |
| 2-PHENOXYETHYL METHACRYLATE NOT rapidly degradable | |
| TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYL NOT rapidly degradable | ATE |
| P-TOLUENESULPHONYL CHLORIDE Rapidly degradable | |
| 12.3. Bioaccumulative potential | |
| 2-PHENOXYETHYL METHACRYLATE Partition coefficient: n-octanol/water | 3,137 |
| TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYL Partition coefficient: n-octanol/water | ATE 1,8 |
| PROPYLIDYNETRIMETHYL TRIMETHACRYLATE Partition coefficient: n-octanol/water | 4,19 |
| 12.4. Mobility in soil | |
| 2-PHENOXYETHYL METHACRYLATE Partition coefficient: soil/water | 2,64 |
| TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYL Partition coefficient: soil/water | ATE 2,79 |

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Waste class 08 04 09* stickers and sealed sealing, containing organic solvents or other dangerous substances.

SECTION 14. Transport information

EN



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SECTION 14. Transport information ... />>

14.1. UN number or ID number

| ADR / RID, IMDG, | , IATA: 3 | 082 | | | |
|----------------------------------|------------|--|----|--|--|
| ADR / RID: | | In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions. | | | |
| IMDG: | | In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions. | | | |
| IATA: | | In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations. | | | |
| 14.2. UN proper ship | pping name | | | | |
| ADR / RID: | | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE; TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE) | | | |
| IMDG: | ENVIRONM | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE; TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE) | | | |
| IATA: | ENVIRONM | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE; TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE) | | | |
| 14.3. Transport hazard class(es) | | | | | |
| ADR / RID: | Class: 9 | Label: 9 | | | |
| IMDG: | Class: 9 | Label: 9 | | | |
| IATA: | Class: 9 | Label: 9 | Â. | | |

14.4. Packing group

ADR / RID, IMDG, IATA:

Ш

14.5. Environmental hazards

| ADR / RID: | Environmentally Hazardous | |
|------------|---------------------------|--|
| IMDG: | Marine Pollutant | |
| IATA: | Environmentally Hazardous | |

14.6. Special precautions for user

| ADR / RID: | HIN - Kemler: 90 | Limited Quantities: 5 L | Tunnel restriction code: (-) |
|------------|----------------------|-------------------------|------------------------------|
| | Special provision: - | | |
| IMDG: | EMS: F-A, S-F | Limited Quantities: 5 L | |
| IATA: | Cargo: | Maximum quantity: 450 L | Packaging instructions: 964 |
| | Passengers: | Maximum quantity: 450 L | Packaging instructions: 964 |
| | Special provision: | A97, A158, A197, A215 | |

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant



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ΕN

| SECTION 15. Regulatory information | | | |
|--|--|--|--|
| | | | |
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture | | | |
| Seveso Category - Directive 2012/18/EU: E2 | | | |
| Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 | | | |
| Product | | | |
| Point 3 | | | |
| Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors | | | |
| not applicable | | | |
| Substances in Condidets List (Art. 50 DEACLI) | | | |
| Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%. | | | |
| | | | |
| Substances subject to authorisation (Annex XIV REACH) | | | |
| None | | | |
| Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: | | | |
| None | | | |
| Cultateress subject to the Detterday Converting | | | |
| Substances subject to the Rotterdam Convention: None | | | |
| | | | |
| Substances subject to the Stockholm Convention: | | | |
| None | | | |
| Healthcare controls | | | |
| Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks | | | |

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 3: Severe hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| Met. Corr. 1 | Substance or mixture corrosive to metals, category 1 |
|-------------------|--|
| Repr. 2 | Reproductive toxicity, category 2 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Skin Sens. 1A | Skin sensitization, category 1A |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| H290 | May be corrosive to metals. |
| H361d | Suspected of damaging the unborn child. |
| H318 | Causes serious eye damage. |
| | |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule



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SECTION 16. Other information ... / >>

- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/918 (VIII Atp. CLP) of the EU 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVI Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- zz. Delegated Regulation (OE) 2022/092 (XVIII Alp.
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.



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Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.