

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

| 1.1 Product identifier | |
|----------------------------------|-----------------------|
| Product name | : Penguard HSP Comp A |
| UFI | : K6YF-519T-C004-JQEG |
| Product code | : 16600 |
| Product description | : Paint. |
| Product type | : Liquid. |
| Other means of identification | : Not available. |
| | |

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use in coatings - Industrial use Use in coatings - Professional use

1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

| SECTION 2: Hazards | | |
|---|--|-----|
| Hazard statements | H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects. | |
| Precautionary statements | | |
| General | Not applicable. | |
| Prevention | P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other igniti sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapour. | ion |
| Response | P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for severa minutes. Remove contact lenses, if present and easy to do. Continue rinsing. mmediately call a POISON CENTER or doctor. | al |
| Storage | Not applicable. | |
| Disposal | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. | |
| Hazardous ingredients | epoxy resin (MW ≤ 700) 2-methylpropan-1-ol nydrocarbons, c9-unsatd., polymd. | |
| Supplemental label elements | EUH205 - Contains epoxy constituents. May produce an allergic reaction. EUH211 - Warning! Hazardous respirable droplets may be formed when spraye Do not breathe spray or mist. | ∍d. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | Not applicable. | |
| Special packaging requirem | 2 | |
| Containers to be fitted with child-resistant fastenings | Not applicable. | |
| Tactile warning of danger | Not applicable. | |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | This mixture does not contain any substances that are assessed to be a PBT o /PvB. | ra |
| Other hazards which do not result in classification | None known. | |
| The mixture may be a skin se | ser. It may also be a skin irritant and repeated contact may increase this effect. | |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Penguard HSP Comp A | | | | | | |
|---|--|-----------|---|---|---------|--|
| SECTION 3: Composition/information on ingredients | | | | | | |
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре | |
| epoxy resin (MW ≤ 700) | REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2 | ≥10 - <25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 | Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% | [1] | |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≤10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 20 mg/ I | [1] [2] | |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≤5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | - | [1] [2] | |
| hydrocarbons, c9-unsatd., polymd. | REACH #: 01-2119555292-40 EC: 701-299-7 CAS: 71302-83-5 | ≤5 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 | - | [1] | |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≤3 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] | |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3 | ≤3 | Flam. Liq. 3, H226 STOT SE 3, H336 | - | [1] [2] | |
| | | | See Section 16 for the full text of the H statements declared above. | | | |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

This mixture contains \geq 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

| neasures |
|---|
| : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. |
| : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. |
| : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. |
| : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. |
| : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| |

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW ≤ 700), hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction.

Over-exposure signs/symptoms

| Eye contact | : Adverse symptoms may include the following: pain watering redness |
|--------------|--|
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |

| SECTION 4: First aid measures | | | | | | | |
|-------------------------------|---|--|--|--|--|--|--|
| 4.3 Indication of any imm | ediate medical attention and special treatment needed | | | | | | |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. | | | | | | |
| Specific treatments | : No specific treatment. | | | | | | |

| SECTION 5: Firefighting measures | | | | | |
|--|-----|---|--|--|--|
| 5.1 Extinguishing media | | | | | |
| Suitable extinguishing media | : | Recommended: alcohol-resistant foam, CO ₂ , powders, water spray. | | | |
| Unsuitable extinguishing media | : | Do not use water jet. | | | |
| 5.2 Special hazards arising f | rom | the substance or mixture | | | |
| Hazards from the substance or mixture | : | Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. | | | |
| Hazardous combustion products | : | Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. | | | |
| 5.3 Advice for firefighters | | | | | |
| Special protective actions for fire-fighters | : | Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. | | | |

Special protective : Appropriate breathing apparatus may be required. equipment for fire-fighters

SECTION 6: Accidental release measures

| 6.1 Personal precautions, pro | te | ctive equipment and emergency procedures |
|--|----|--|
| For non-emergency personnel | : | Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. |
| For emergency responders | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : | Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations. |
| 6.3 Methods and material for containment and cleaning up | : | Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents. |
| 6.4 Reference to other sections | : | See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Penguard HSP Comp A

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

| • • | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne | 50000 tonne |

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

- Recommendations
- Not available.Not available.

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| xylene | FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through |
| - | skin. Notes: H E |
| | TWA: 108 mg/m ³ 8 hours. |
| | TWA: 25 ppm 8 hours. |
| 2-methylpropan-1-ol | FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through |
| | skin. |
| | CEIL: 75 mg/m ³ |
| | CEIL: 25 ppm |
| ethylbenzene | FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through |
| • | skin. Notes: H K E |
| | TWA: 5 ppm 8 hours. |
| | TWA: 20 mg/m ³ 8 hours. |
| 1-methoxy-2-propanol | FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through |
| | skin. Notes: indicative limit value |
| | TWA: 180 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |

procedures

Recommended monitoring : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| DNEL DNEL DNEL DNEL DNEL DNEL DNEL | Long term Dermal Long term Oral Long term Dermal Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 89.3 μg/kg bw/day 0.5 mg/kg bw/day 0.75 mg/ kg bw/day 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ 260 mg/m ³ | population Workers | Systemic Systemic Systemic Systemic Systemic Local Local |
|--|--|---|--|---|
| DNEL DNEL DNEL DNEL DNEL | Long term Dermal Long term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 0.5 mg/kg bw/day 0.75 mg/ kg bw/day 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | General population Workers General population Workers General population General | Systemic Systemic Systemic Local |
| DNEL DNEL DNEL DNEL DNEL | Long term Dermal Long term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 0.5 mg/kg bw/day 0.75 mg/ kg bw/day 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | General population Workers General population Workers General population General | Systemic Systemic Systemic Local |
| DNEL DNEL DNEL DNEL | Long term Dermal Long term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | bw/day 0.75 mg/ kg bw/day 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | Workers General population Workers General population General | Systemic Systemic Systemic Local |
| DNEL DNEL DNEL DNEL | Long term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 0.75 mg/ kg bw/day 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | Workers General population Workers General population General | Systemic Systemic Local |
| DNEL DNEL DNEL | Long term Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | population Workers General population General | Systemic Systemic Local |
| DNEL DNEL DNEL | Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 0.87 mg/m ³ 4.93 mg/m ³ 65.3 mg/m ³ | population Workers General population General | Systemic Local |
| DNEL DNEL DNEL | Inhalation Long term Inhalation Long term Inhalation Short term Inhalation | 4.93 mg/m ³ 65.3 mg/m ³ | population Workers General population General | Systemic Local |
| DNEL DNEL | Inhalation Long term Inhalation Short term Inhalation | 65.3 mg/m ³ | Workers General population General | Local |
| DNEL DNEL | Inhalation Long term Inhalation Short term Inhalation | 65.3 mg/m ³ | General population General | Local |
| DNEL | Inhalation Short term Inhalation | _ | population General | |
| | Inhalation Short term Inhalation | _ | population General | Local |
| | Short term Inhalation | 260 mg/m ³ | General | Local |
| | Inhalation | 5 | population | |
| DNFI | | | | |
| | Short term | 260 mg/m ³ | General | Systemic |
| | Inhalation | 5 | population | , |
| DNEL | | 221 ma/m ³ | | Local |
| | Inhalation | 5 | | |
| DNEL | Long term Oral | 12.5 mg/ | General | Systemic |
| | Ū | | population | , |
| DNEL | Long term | | | Systemic |
| | Inhalation | 5 | | , |
| DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | Ū | | population | , |
| DNEL | Long term Dermal | | | Systemic |
| | 5 | | | , |
| DNEL | Long term | | Workers | Systemic |
| | Inhalation | Ŭ | | |
| DNEL | Short term | 442 mg/m ³ | Workers | Local |
| | Inhalation | Ŭ | | |
| | DNEL DNEL DNEL DNEL DNEL | DNELLong term InhalationDNELLong term OralDNELLong term InhalationDNELLong term DermalDNELLong term DermalDNELLong term Inhalation Short term Inhalation | DNELLong term Inhalation221 mg/m³DNELLong term Oral12.5 mg/ kg bw/dayDNELLong term Oral12.5 mg/kg bw/dayDNELLong term Dermal125 mg/kg bw/dayDNELLong term Dermal212 mg/kg bw/dayDNELLong term Dermal212 mg/kg bw/dayDNELLong term Dermal212 mg/kg bw/dayDNELLong term Inhalation221 mg/m³DNELShort term Inhalation442 mg/m³ | DNELLong term Inhalation221 mg/m³WorkersDNELLong term Oral12.5 mg/ kg bw/dayGeneral populationDNELLong term Inhalation65.3 mg/m³General populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term Inhalation221 mg/m³ WorkersWorkers |

| | DNEL | Short term | 442 mg/m ³ | Workers | Systemic |
|------------------------------------|-------|--------------------------|------------------------|------------|-----------|
| 0 mothydrawara 1 ol | | Inhalation | | Comorol | Quatamic |
| 2-methylpropan-1-ol | DNEL | Long term | 55 mg/m³ | General | Systemic |
| | | Inhalation | 210 manufact | population | Sustantia |
| | DNEL | Long term | 310 mg/m ³ | Workers | Systemic |
| | DNEL | Inhalation | 55 mg/m ³ | General | Local |
| | DINEL | Long term Inhalation | 55 mg/m³ | population | LUCAI |
| | DNEL | Long term | 310 mg/m ³ | Workers | Local |
| | DINEL | Inhalation | STU Hig/H | WORKERS | LUCAI |
| hydrocarbons, c9-unsatd., polymd. | DNEL | Long term Dermal | 3.5 mg/kg | Workers | Systemic |
| nyurocarbons, cə-unsatu., polyinu. | DINEL | Long term Demial | bw/day | VVUINCIS | Systemic |
| | DNEL | Long term | 1.41 mg/m ³ | Workers | Systemic |
| | | Inhalation | 1. 4 1 mg/m | 11011013 | Cysternic |
| ethylbenzene | DNEL | Long term Oral | 1.6 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term | 15 mg/m ³ | General | Systemic |
| | DITE | Inhalation | ro mg/m | population | eyetenne |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| | | Inhalation | 3 | | , |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| | DMEL | Short term Inhalation | 884 mg/m³ | Workers | Systemic |
| 1-methoxy-2-propanol | DNEL | Long term Oral | 33 mg/kg | General | Systemic |
| | | _ | bw/day | population | - |
| | DNEL | Long term | 43.9 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term Dermal | 78 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 183 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 369 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 553.5 mg/ m³ | Workers | Local |
| | DNEL | Short term | 553.5 mg/ | Workers | Systemic |
| | | Inhalation | m³ | | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|--|---------------------------|-----------------|----------------|
| epoxy resin (MW ≤ 700) | Fresh water | 0.006 mg/l | - |
| | Marine | 0.0006 mg/l | - |
| | Sewage Treatment | 10 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 0.996 mg/l | - |
| | Marine water sediment | 0.0996 mg/l | - |
| | Soil | 0.196 mg/l | - |
| xylene | Fresh water | 0.327 mg/l | - |
| | Marine | 0.327 mg/l | - |
| | Sewage Treatment | 6.58 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 12.46 mg/kg dwt | - |
| | Marine water sediment | 12.46 mg/kg dwt | - |
| | Soil | 2.31 mg/kg dwt | - |
| 2-methylpropan-1-ol | Fresh water | 0.4 mg/l | - |
| | Marine | 0.04 mg/l | - |
| | Sewage Treatment | 10 mg/l | - |
| e of issue/Date of revision : 24.03.20 | 23 Date of previous issue | : 23.03.2023 | Version : 1.01 |

SECTION 8: Exposure controls/personal protection

| SECTION 8: Exposure controls/p | ersonal protectio |) [] | |
|-----------------------------------|-----------------------|------------------|---|
| | Plant | | |
| | Fresh water sediment | 1.52 mg/kg dwt | - |
| | Marine water sediment | 0.152 mg/kg dwt | - |
| | Soil | 0.0699 mg/kg dwt | - |
| hydrocarbons, c9-unsatd., polymd. | Fresh water | 54 µg/l | - |
| | Marine | 5.4 µg/l | - |
| | Sewage Treatment | 2.2 mg/l | - |
| | Plant | _ | |
| | Fresh water sediment | 1584 mg/kg dwt | - |
| | Marine water sediment | 158 mg/kg dwt | - |
| | Soil | 316.7 mg/kg dwt | - |
| | Secondary Poisoning | 200 mg/kg | - |
| ethylbenzene | Fresh water | 0.1 mg/l | - |
| | Marine | 0.01 mg/l | - |
| | Sewage Treatment | 9.6 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 13.7 mg/kg dwt | - |
| | Soil | 2.68 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |
| 1-methoxy-2-propanol | Fresh water | 10 mg/l | - |
| | Marine | 1 mg/l | - |
| | Sewage Treatment | 100 mg/l | - |
| | Plant | | |
| | Fresh water sediment | 52.3 mg/kg dwt | - |
| | Marine water sediment | 5.2 mg/kg dwt | - |
| | Soil | 5.49 mg/kg dwt | - |

8.2 Exposure controls

Appropriate engineering : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If controls these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

| Hygiene measures | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
|---------------------|---|---|
| Eye/face protection | : | Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. |

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

SECTION 8: Exposure controls/personal protection

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), nitrile rubber (> 0.4 mm), Viton® (> 0.7 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

| Body protection | Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres. |
|---------------------------------|--|
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter. |
| Environmental exposure controls | : Do not allow to enter drains or watercourses. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | | |
|--|--|---------|
| Physical state | iquid. | |
| Colour | Grey, Red, Yellowish-brown. | |
| Odour | haracteristic. | |
| Odour threshold | lot applicable. | |
| Melting point/freezing point | lot applicable. | |
| Initial boiling point and boiling range | owest known value: 108°C (226.4°F) (2-methylpropan-1-ol). Weighted a 24.24°C (435.6°F) | verage: |
| Flammability | lot applicable. | |
| Lower and upper explosion limit | .8 - 13.74% | |
| Flash point | closed cup: 29°C | |
| Auto-ignition temperature | owest known value: 270°C (518°F) (1-methoxy-2-propanol). | |
| Decomposition temperature | lot available. | |
| pH | lot applicable. | |
| Viscosity | inematic (40°C): >20.5 mm²/s | |
| Solubility in water | old water Not soluble ot water Not soluble | |
| Partition coefficient: n-octanol/ water | ot available. | |
| Vapour pressure | lighest known value: <1.6 kPa (<12 mm Hg) (at 20°C) (2-methylpropan- /eighted average: 0.44 kPa (3.3 mm Hg) (at 20°C) | 1-ol). |
| Evaporation rate | lighest known value: 0.84 (ethylbenzene) Weighted average: 0.75comp vith butyl acetate | ared |
| Density | .68591 to 1.752 g/cm ³ | |
| | | |

SECTION 9: Physical and chemical properties

| _ | |
|--------------------------|--|
| Vapour density | Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted average: 8.09 (Air = 1) |
| Explosive properties | : Not available. |
| Oxidising properties | : Not available. |
| Particle characteristics | |
| Median particle size | : Not applicable. |

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
|--|---|--|
| 10.2 Chemical stability | : | Stable under recommended storage and handling conditions (see Section 7). |
| 10.3 Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : | When exposed to high temperatures may produce hazardous decomposition products. |
| 10.5 Incompatible materials | : | Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : | Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen. |

SECTION 11: Toxicological information

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Contains epoxy resin (MW \leq 700), hydrocarbons, C9-unsaturated, polymerized. May produce an allergic reaction. Acute toxicity

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|-----------------------------------|------------------------|------------|-------------------------|----------|
| epoxy resin (MW ≤ 700) | LD50 Dermal | Rabbit | 20 g/kg | - |
| | LD50 Oral | Mouse | 15600 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 20 mg/l | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 19200 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 2460 mg/kg | - |
| hydrocarbons, c9-unsatd., polymd. | LD50 Dermal | Rat | >2000 mg/kg | - |
| porjinal | LD50 Oral | Rat | >2000 mg/kg | _ |
| ethylbenzene | LC50 Inhalation Vapour | Rat - Male | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Penguard HSP Comp A | N/A | 19247.6 | N/A | 254.6 | N/A |
| xylene | 4300 | 1100 | N/A | 20 | N/A |
| 2-methylpropan-1-ol | 2460 | 3400 | N/A | N/A | N/A |
| ethylbenzene | 3500 | N/A | N/A | 17.8 | N/A |
| 1-methoxy-2-propanol | 6600 | 13000 | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|------------------------|------------------------------------|-------|--------------------------|-------------|
| epoxy resin (MW ≤ 700) | Eyes - Severe irritant | Rabbit | - | 24 hours 2 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| xylene | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| 2-methylpropan-1-ol | Eyes - Irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Mammal - species unspecified | - | - | - |
| 1-methoxy-2-propanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-----------------------------------|-------------------|---------------------------------|-------------|
| epoxy resin (MW ≤ 700) | skin | Mammal - species unspecified | Sensitising |
| hydrocarbons, c9-unsatd., polymd. | skin | Mouse | Sensitising |

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

SECTION 11: Toxicological information

Reproductive toxicity

- **Developmental effects**
- : No known significant effects or critical hazards.
- Fertility effects Teratogenicity
- No known significant effects or critical hazards.

. No known signmeant cheets o

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|--------------------------|-------------------|--------------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract irritation |
| 1-methoxy-2-propanol | Category 3 Category 3 | - | Narcotic effects Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|------------------------------------|-------------------------------------|----------|
| epoxy resin (MW ≤ 700) | Acute EC50 1.4 mg/l | Daphnia | 48 hours |
| | Acute LC50 3.1 mg/l | Fish - pimephales promelas | 96 hours |
| | Chronic NOEC 0.3 mg/l | Fish | 21 days |
| xylene | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| 2-methylpropan-1-ol | Chronic NOEC 4000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| ethylbenzene | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| , | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/Ĭ | Fish | 96 hours |

Conclusion/Summary

: This material is harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Conclusion/Summary | : Not available. |
|--------------------|------------------|
|--------------------|------------------|

Date of issue/Date of revision

| SECTION 12: Ecolog | cal information | | |
|--|-------------------|------------|-----------------------------------|
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
| epoxy resin (MW ≤ 700) xylene ethylbenzene | - - | | Not readily Readily Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential | |
|-----------------------------------|--------------|-------------|-----------|--|
| epoxy resin (MW ≤ 700) | 2.64 to 3.78 | 31 | low | |
| xylene | 3.12 | 8.1 to 25.9 | low | |
| 2-methylpropan-1-ol | 1 | - | low | |
| hydrocarbons, c9-unsatd., polymd. | 3.627 | - | low | |
| ethylbenzene | 3.6 | - | low | |
| 1-methoxy-2-propanol | <1 | - | low | |

| 12.4 Mobility in soil | |
|-----------------------|------------------|
| Soil/water partition | : Not available. |
| coefficient (Koc) | |
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| Product | | |
|-------------------------|---|---|
| Methods of disposal | : | The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | 1 | Yes. |
| Disposal considerations | : | Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority. |

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste | designation | | |
|--------------------------------|--|-----------------------|---------------------|-------|
| 08 01 11* | Waste paint and varnish containing organ | nic solvents or other | dangerous substance | S |
| Date of issue/Date of revision | : 24.03.2023 Date of previous issue | : 23.03.2023 | Version : 1.01 | 14/18 |

SECTION 13: Disposal considerations

| • | | |
|-------------------------|--|---|
| Packaging | | |
| Methods of disposal | packaging sh | on of waste should be avoided or minimised wherever possible. Waste nould be recycled. Incineration or landfill should only be considered ng is not feasible. |
| Disposal considerations | the relevant v Empty contai | ation provided in this safety data sheet, advice should be obtained from waste authority on the classification of empty containers. iners must be scrapped or reconditioned. ontainers contaminated by the product in accordance with local or I provisions. |
| Type of packaging | | European waste catalogue (EWC) |
| CEPE Guidelines | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| Special precautions | taken when h Empty contai residues may | I and its container must be disposed of in a safe way. Care should be nandling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the o not cut, weld or grind used containers unless they have been cleaned |

thoroughly internally. Avoid dispersal of spilt material and runoff and contact with

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------|--------|--------|--------|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | Paint | Paint | Paint | Paint |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | 111 | 111 | 111 | 111 |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

soil, waterways, drains and sewers.

Additional information

| ADR/RID | ÷ | <u>Hazard identification number</u> 30 <u>Tunnel code</u> (D/E) |
|--|---|---|
| ADN | : | The product is only regulated as an environmentally hazardous substance when transported in tank vessels. |
| IMDG | 1 | Emergency schedules F-E, <u>S-E</u> |
| 14.6 Special precautions for user | : | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| 14.7 Maritime transport in bulk according to IMO instruments | : | Not available. |
| | | |

SECTION 15: Regulatory information

| 15.1 Safety, health and enviro | | | ecific for the substan | ce or mixture | |
|---|-------------------------------|-------------------------|--|--------------------|-------------|
| EU Regulation (EC) No. 190 Annex XIV - List of substa | | - | | | |
| Annex XIV | <u>inces subject to</u> | autionsation | | | |
| None of the components a | are listed. | | | | |
| Substances of very high | <u>concern</u> | | | | |
| None of the components a | are listed. | | | | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicab | le. | | | |
| Other EU regulations | | | | | |
| VOC | | | 2/EC on VOC apply to sheet for further infor | | fer to the |
| VOC for Ready-for-Use Mixture | : Not available | 9. | | | |
| Industrial emissions (integrated pollution prevention and control) - Air | : Not listed | | | | |
| Industrial emissions (integrated pollution prevention and control) - Water | : Not listed | | | | |
| Ozone depleting substanc Not listed. | <u>es (1005/2009/E:</u> | <u>:U)</u> | | | |
| Prior Informed Consent (P Not listed. | <u>'IC) (649/2012/E</u> | (r | | | |
| Persistent Organic Polluta Not listed. | <u>ints</u> | | | | |
| Seveso Directive This product may add to the major accident hazards. | calculation for d | etermining whether a s | site is within the scope | of the Seveso D | irective on |
| National regulations Industrial use | own assessr legislation. T | ment of workplace risk | afety data sheet does s, as required by othe ational health and safe | r health and safet | ty |
| <u>Norway</u> | | | | | |
| Product registration number | : 308981 | | | | |
| International regulations | | | | | |
| Chemical Weapon Convent Not listed. | ion List Schedu | les I, II & III Chemica | <u>ls</u> | | |
| Montreal Protocol | | | | | |
| Not listed. | | | | | |
| Stockholm Convention on F | Persistent Orga | nic Pollutants | | | |
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SECTION 15: Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

| 15.2 Chemical safety | : Not applicable. |
|----------------------|-------------------|
| | |

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group |
|----------------------------|--|
| | vPvB = Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
|------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
|-------------------|---|
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| | 0, 1 |

SECTION 16: Other information

| Skin Sens. 1B STOT RE 2 | SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
|---------------------------------|---|
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
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| Notice to reader | |

Notice to reader

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