Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET



Hardtop Clear Comp B

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

1.1 Product identifier

| Product name | : Hardtop Clear Comp B |
|----------------------------------|------------------------|
| Product code | : 33862 |
| Product description | : Hardener. |
| 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 Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England Tel: +44 17 24 40 00 00

Fax: +44 17 24 40 01 00

1.4 Emergency telephone number

| National advisory body/Poison Centre | | | | | | |
|--------------------------------------|--|--|--|--|--|--|
| Telephone number | : Contact NHS Direct; phone 0845 4647 or 111. Open 24/7. | | | | | |
| <u>Supplier</u> | | | | | | |
| Telephone number | : +47 33 45 70 00 Jotun Norway (head office) | | | | | |
| | | | | | | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

SECTION 2: Hazards identification

| Hazard pictograms | |
|---|---|
| Signal word | : Warning. |
| Hazard statements | H226 - Flammable liquid and vapour. H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. |
| Precautionary statements | |
| General | : Not applicable. |
| Prevention | P280 - Wear protective gloves. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapour. |
| Response | P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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. |
| Storage | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : EUH204 - Contains isocyanates. May produce an allergic reaction. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : As from August 24 2023 adequate training is required before industrial or professional use. |
| Special packaging requirem | ents |
| 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 or a vPvB. |
| Other hazards which do not result in classification | : None known. |

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

| Product/ingredient name | Identifiers | % | Classification | Туре |
|--|--|-----------|---|---------|
| exane, 1,6-diisocyanato-, homopolymer | REACH #: 01-2119488934-20 EC: 500-060-2 CAS: 28182-81-2 | ≥50 - ≤75 | Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 | [1] [2] |
| n-butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | [1] [2] |
| 2-methoxy-1-methylethyl acetate | REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] [2] |
| 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 | [1] [2] |
| 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 | [1] [2] |
| tosyl isocyanate | EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7 | <1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014 | [1] [2] |
| hexamethylene-di-isocyanate | REACH #: 01-2119457571-37 EC: 212-485-8 CAS: 822-06-0 Index: 615-011-00-1 | ≤0.3 | Acute Tox. 4, H302 Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 | [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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

| .1 Description of first aid measures | | | | |
|--------------------------------------|---|--|--|--|
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. | | | |
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. | | | |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. | | | |
| Ingestion | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. | | | |
| Protection of first-aiders | : 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.

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

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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 isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Hexamethylene diisocyanate, oligomers, 4-isocyanatosulphonyltoluene, hexamethylene-di-isocyanate. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact : No specific data.

| Hardtop Clear Comp B | |
|----------------------|--|
|----------------------|--|

| SECTION 4: First aid measures | | | | |
|-------------------------------|---|--|--|--|
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness | | | |
| Skin contact | : Adverse symptoms may include the following: irritation redness | | | |
| Ingestion | : No specific data. | | | |
| 4.3 Indication of any imm | ediate medical attention and special treatment needed | | | |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. | | | |
| Specific treatments | : No specific treatment. | | | |

See toxicological information (Section 11)

| SECTION 5: Firefighting measures | | | | |
|--|--|--|--|--|
| 5.1 Extinguishing media | | | | |
| Suitable extinguishing media | : Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist. | | | |
| 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 | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. | | | |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides | | | |
| 5.3 Advice for firefighters | | | | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. | | | |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. | | | |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, protective equipment and emergency procedures | | | | | |
|---|--|--|--|--|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. | | | | |
| 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". | | | | |

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SECTION 6: Accidental release measures

| 6.2 Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|---------------------------------|----|--|
| 6.3 Methods and material for | со | ntainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |
| 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. |

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

| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|---|---|
| Advice on general occupational hygiene | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

SECTION 7: Handling and storage

| <u> </u> | | |
|----------|---------------------------------|-------------------------|
| Category | 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. |
|----------------------------|------------------|
| Industrial sector specific | : Not available. |
| solutions | |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| 🗚 exane, 1,6-diisocyanato-, homopolymer | EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, all, except methyl isocyanate] Inhalation sensitiser. |
| | STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. |
| | TWA: 0.02 mg/m^3 , (as -NCO) 8 hours. |
| n-butyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| , | STEL: 966 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 724 mg/m ³ 8 hours. |
| | TWA: 150 ppm 8 hours. |
| 2-methoxy-1-methylethyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 548 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 274 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-, |
| | p- or mixed isomers] Absorbed through skin. |
| | STEL: 441 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| othydhanzana | |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. |
| | STEL: 552 mg/m ³ 15 minutes. |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| | TWA: 441 mg/m ³ 8 hours. |
| tosyl isocyanate | EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, |
| | all, except methyl isocyanate] Inhalation sensitiser. |
| | STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. |
| | TWA: 0.02 mg/m^3 , (as -NCO) 8 hours. |
| hexamethylene-di-isocyanate | EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates, |
| , , , , , , , , , , , , , , , , , , , | all, except methyl isocyanate] Inhalation sensitiser. Notes: as |
| | NCO |
| | STEL: 0.07 mg/m³, (as -NCO) 15 minutes. |
| | TWA: 0.02 mg/m³, (as -NCO) 8 hours. |

Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|--|
| kylene | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. |

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SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|--|------|--------------------------|------------------------|--------------------------------------|----------|
| exane, 1,6-diisocyanato-, homopolymer | DNEL | Long term Inhalation | 0.5 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 1 mg/m³ | Workers | Local |
| n-butyl acetate | DNEL | Short term Inhalation | 960 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 960 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 480 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 480 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 859.7 mg/ m³ | General population [Consumers] | Systemic |
| | DNEL | Short term Inhalation | 859.7 mg/ m³ | General population [Consumers] | Local |
| | DNEL | Long term Inhalation | 102.34 mg/ m³ | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 102.34 mg/ m³ | General population [Consumers] | Local |
| | DNEL | Long term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 2 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 3.4 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 7 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 11 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 12 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 35.7 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 48 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 300 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 300 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 600 mg/m ³ | Workers | Systemic |
| 2-methoxy-1-methylethyl acetate | DNEL | Long term Dermal | 153.5 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 54.8 mg/ | General | Systemic |

| | • • • • • • • • • • • | | -4! | | |
|--------------------|-----------------------|--------------------------------|------------------------|------------------------|------------|
| ECTION 8: Exposure | controls/p | personal prote | ction | | |
| | | | kg bw/day | population | |
| | DNEL | Long torm | 33 mg/m³ | [Consumers] General | Systemic |
| | DINEL | Long term Inhalation | 55 mg/m | population | Systemic |
| | | Innalation | | [Consumers] | |
| | DNEL | Long term Oral | 1.67 mg/ | General | Systemic |
| | | - | kg bw/day | population | |
| | | | | [Consumers] | |
| | DNEL | Long term Inhalation | 33 mg/m³ | General | Local |
| | DNEL | Long term | 33 mg/m³ | population General | Systemic |
| | DILL | Inhalation | oo mg/m | population | Cysternio |
| | DNEL | Long term Oral | 36 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term | 275 mg/m ³ | Workers | Systemic |
| | DNEL | Inhalation Long term Dermal | 320 mg/kg | General | Systemic |
| | DINEL | Long term Derma | bw/day | population | Systemic |
| | DNEL | Short term | 550 mg/m ³ | Workers | Local |
| | | Inhalation | Ū | | |
| | DNEL | Long term Dermal | 796 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| xylene | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term | 65.3 mg/m ³ | General | Local |
| | DITLE | Inhalation | 00.0 mg/m | population | Loodi |
| | DNEL | Long term | 65.3 mg/m ³ | General | Systemic |
| | | Inhalation | | population | |
| | DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | DNEL | Long term Dermal | bw/day 212 mg/kg | population Workers | Systemic |
| | DINEL | Long term Derma | bw/day | VUIKEIS | Systemic |
| | DNEL | Long term | 221 mg/m ³ | Workers | Local |
| | | Inhalation | Ŭ | | |
| | DNEL | Long term | 221 mg/m ³ | Workers | Systemic |
| | DNEL | Inhalation | 260 m m/m 3 | Comorol | |
| | DINEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | DNEL | Short term | 260 mg/m ³ | General | Systemic |
| | | Inhalation | | population | -, |
| | DNEL | Short term | 442 mg/m ³ | Workers | Local |
| | | Inhalation | 440 / 3 | | |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| ethylbenzene | DMEL | Long term | 442 mg/m ³ | Workers | Local |
| | DIILL | Inhalation | 112 mg/m | W of Role | Loodi |
| | DMEL | Short term | 884 mg/m³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term Oral | 1.6 mg/kg | General | Systemic |
| | DNEL | Long term | bw/day 15 mg/m³ | population General | Systemic |
| | DINCE | Inhalation | 15 mg/m | population | Oysterrite |
| | DNEL | Long term | 77 mg/m³ | Workers | Systemic |
| | | Inhalation | U U | | , |
| | DNEL | Long term Dermal | 180 mg/kg | Workers | Systemic |
| | | Short tarm | bw/day | Morkers | |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| tosyl isocyanate | DNEL | Long term Oral | 0.46 mg/ | General | Systemic |
| | | | kg bw/day | population | - Jotomio |
| | DNEL | Long term Dermal | 0.46 mg/ | General | Systemic |
| | | | kg bw/day | population | |
| | DNEL | Long term | 0.8 mg/m ³ | General | Systemic |
| | | Inhalation | l | population | |

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SECTION 8: Exposure controls/personal protection

| | | · · · · · · · · · · · · · · · · · · · | | | |
|-----------------------------|------|---------------------------------------|------------------------|---------|----------|
| | DNEL | Long term Dermal | 0.92 mg/ kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 3.24 mg/m ³ | Workers | Systemic |
| hexamethylene-di-isocyanate | DNEL | Long term | 0.035 mg/ m³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.07 mg/m ³ | Workers | Local |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---------------------------------|-----------------------|-----------------------|---------------|
| p-butyl acetate | Fresh water | 0.18 mg/l | - |
| | Marine | 0.018 mg/l | - |
| | Sewage Treatment | 35.6 mg/l | - |
| | Plant | Ŭ | |
| | Fresh water sediment | 0.981 mg/kg dwt | - |
| | Marine water sediment | 0.0981 mg/kg dwt | - |
| | Soil | 0.0903 mg/kg dwt | - |
| 2-methoxy-1-methylethyl acetate | Fresh water | 0.635 mg/l | - |
| 5 5 5 | Marine | 0.0635 mg/l | - |
| | Sewage Treatment | 100 mg/l | - |
| | Plant | J. J. | |
| | Fresh water sediment | 3.29 mg/kg dwt | - |
| | Marine water sediment | 0.329 mg/kg dwt | _ |
| | Soil | 0.29 mg/kg dwt | - |
| xylene | Fresh water | 0.327 mg/l | _ |
| | Marine | 0.327 mg/l | - |
| | Sewage Treatment | 6.58 mg/l | _ |
| | Plant | 0.00 mg/i | |
| | Fresh water sediment | 12.46 mg/kg dwt | - |
| | Marine water sediment | 12.46 mg/kg dwt | _ |
| | Soil | 2.31 mg/kg dwt | _ |
| ethylbenzene | Fresh water | 0.1 mg/l | _ |
| | Marine | 0.01 mg/l | _ |
| | Sewage Treatment | 9.6 mg/l | _ |
| | Plant | 0.0 mg/i | |
| | Fresh water sediment | 13.7 mg/kg dwt | _ |
| | Soil | 2.68 mg/kg dwt | |
| | Secondary Poisoning | 20 mg/kg | |
| hexamethylene-di-isocyanate | Fresh water | 0.0774 mg/l | |
| novanion yielie-di-1300 yanate | Marine | 0.00774 mg/l | |
| | Sewage Treatment | 8.42 mg/l | - |
| | Plant | 0.42 mg/i | - |
| | Fresh water sediment | 0.01334 mg/kg | |
| | | dwt | - |
| | Marina water adiment | | |
| | Marine water sediment | 0.001334 mg/kg dwt | - |
| | Soil | | |
| | Soil | 0.0026 mg/kg dwt | - |

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

SECTION 8: Exposure controls/personal protection

| | • • |
|---------------------|---|
| 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: safety glasses with side-shields. |
| 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

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

Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: Viton® (> 0.7 mm), nitrile rubber (> 0.75 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 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 | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
|---------------------------------|---|
| 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 | : Self-contained respiratory equipment must be worn by spray operator, even when good ventilation is provided. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. |
| 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

| Appearance | |
|----------------|---|
| Physical state | : |
| Colour | : |

Date of issue/Date of revision

Liquid. Colourless.

SECTION 9: Physical and chemical properties

| OECTION 5. 1 Hysical al | | • • • • • • • |
|---|---|--|
| Odour | 1 | Characteristic. |
| Odour threshold | 1 | Not applicable. |
| Melting point/freezing point | : | Not applicable. |
| Initial boiling point and boiling range | : | Lowest known value: 126°C (258.8°F) (n-butyl acetate). Weighted average: 134.93°C (274.9°F) |
| Flammability | 1 | Not applicable. |
| Upper/lower flammability or explosive limits | : | 0.8 - 7.6% |
| Flash point | : | Closed cup: 34°C (93.2°F) |
| Auto-ignition temperature | : | Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate). |
| Decomposition temperature | 1 | Not available. |
| рН | : | Not applicable. |
| Viscosity | : | Kinematic (40°C): >20.5 mm²/s |
| Solubility(ies) | : | |
| | | |
| Media | | Result |
| Media cold water hot water | | Result Not soluble Not soluble |
| cold water | : | Not soluble Not soluble |
| cold water hot water Partition coefficient: n-octanol/ | | Not soluble Not soluble |
| cold water hot water Partition coefficient: n-octanol/ water | : | Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). |
| cold water hot water Partition coefficient: n-octanol/ water Vapour pressure | : | Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.37 kPa (2.78 mm Hg) (at 20°C) Highest known value: 1 (n-butyl acetate) Weighted average: 0.73compared with |
| cold water hot water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate | : | Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.37 kPa (2.78 mm Hg) (at 20°C) Highest known value: 1 (n-butyl acetate) Weighted average: 0.73compared with butyl acetate |
| cold water hot water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Density | | Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.37 kPa (2.78 mm Hg) (at 20°C) Highest known value: 1 (n-butyl acetate) Weighted average: 0.73compared with butyl acetate 1.04 g/cm³ Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). |
| cold water hot water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Density Vapour density | | Not soluble Not soluble Not available. Highest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.37 kPa (2.78 mm Hg) (at 20°C) Highest known value: 1 (n-butyl acetate) Weighted average: 0.73compared with butyl acetate 1.04 g/cm³ Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.09 (Air = 1) |

: Not applicable.

9.2 Other information

Median particle size

No additional information.

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : The product reacts slowly with water, resulting in the production of carbon dioxide. |
|--|--|
| 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 | : In a fire, hazardous decomposition products may be produced. |
| 10.5 Incompatible materials | : Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols. |
| 10.6 Hazardous decomposition products | Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates. |
| Thermal decomposition (>200° | °C) may liberate anhydrides and relatively low concentrations of isocyanates |

Thermal decomposition (>200°C) may liberate anhydrides and relatively low concentrations of isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

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

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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 isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Hexamethylene diisocyanate, oligomers, 4-isocyanatosulphonyltoluene, hexamethylene-di-isocyanate. May produce an allergic reaction.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------------|------------|-----------------------|----------|
| p -butyl acetate | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| - | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 13100 mg/kg | - |
| 2-methoxy-1-methylethyl | LD50 Dermal | Rabbit | >5 g/kg | - |
| acetate | | | | |
| | LD50 Oral | Rat | 8532 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 11 mg/l | 4 hours |
| - | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat - Male | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| 4-isocyanatosulphonyltoluene | LD50 Oral | Rat | 2234 mg/kg | - |
| hexamethylene-di- | LC50 Inhalation Dusts and | Rat | 124 mg/m ³ | 4 hours |
| isocyanate | mists | | L C | |

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) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Hardtop Clear Comp B | N/A | 13861.7 | N/A | 34.0 | 2.4 |
| hexane, 1,6-diisocyanato-, homopolymer | N/A | N/A | N/A | N/A | 1.5 |
| n-butyl acetate | 13100 | N/A | N/A | N/A | N/A |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| xylene | 4300 | 1100 | N/A | 11 | N/A |
| ethylbenzene | 3500 | N/A | N/A | 11 | N/A |
| tosyl isocyanate | 2234 | N/A | N/A | N/A | N/A |
| hexamethylene-di-isocyanate | 746 | N/A | N/A | 0.124 | N/A |

Irritation/Corrosion

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--------------------------|------------------------------------|-------|--------------------------|-------------|
| rexamethylene diisocyanate, oligomers | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| - | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| xylene | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| 4-isocyanatosulphonyltoluene | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 microliters | - |
| hexamethylene-di-isocyanate | Eyes - Mild irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Mammal - species unspecified | - | - | - |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|--|-------------------|---------------------------------|-------------|
| ✓examethylene diisocyanate, oligomers | skin | Mammal - species unspecified | Sensitising |
| hexamethylene-di-isocyanate | skin | Mammal - species unspecified | Sensitising |

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Teratogenicity

Fertility effects

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------------|------------|-------------------|---------------------------------|
| Hexamethylene diisocyanate, oligomers | Category 3 | - | Respiratory tract irritation |
| n-butyl acetate | Category 3 | - | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| xylene | Category 3 | - | Respiratory tract irritation |
| 4-isocyanatosulphonyltoluene | Category 3 | - | Respiratory tract irritation |
| hexamethylene-di-isocyanate | Category 3 | - | Respiratory tract irritation |

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 |

SECTION 11: Toxicological information

| Potential acute health ef | i <u>fects</u> |
|---------------------------|---|
| Eye contact | : No known significant effects or critical hazards. |
| Inhalation | : Harmful if inhaled. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Symptoms related to the | e physical, chemical and toxicological characteristics |
| Eye contact | : No specific data. |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| General | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Other information | : None identified. |

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 not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---|---|----------------------|
| vylene | Acute LC50 8500 µg/l Marine water | Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio | 48 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Fathead minnow - Pimephales promelas | 96 hours |
| ethylbenzene | Acute EC50 7700 µg/l Marine water | Algae - Diatom - Skeletonema costatum | 96 hours |
| | Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l | Daphnia Fish | 48 hours 96 hours |

Conclusion/Summary : No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|--------------------|
| kylene ethylbenzene | - | | Readily Readily |
| caryibenzene | | _ | Readily |

12.3 Bioaccumulative potential

SECTION 12: Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|-------------|-----------|
| Hexamethylene diisocyanate, oligomers | 5.54 | 367.7 | low |
| n-butyl acetate | 2.3 | - | low |
| 2-methoxy-1-methylethyl acetate | 1.2 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| hexamethylene-di-isocyanate | e 0.02 | 57.63 | low |

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

Waste catalogue

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | Waste paint and varnish containing organic solvents or other dangerous substances |

| Pa | cka | agi | n | 1 |
|----|-----|-----|---|---|
| _ | | _ | | |

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Waata aatal

| | lype of packaging | | Waste catalogue |
|---|--------------------|--|---|
| | CEPE Guidelines | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| S | pecial precautions | taken when Empty conta residues ma container. I thoroughly i | al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------|--------|--------|--------|
| 14.1 UN 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 | III | | 111 |
| 14.5 Environmental hazards | No. | No. | No. | No. |

Tunnel code (D/E)

IMDG : Emergency schedules F-E, S-E

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 Transport in bulk : Not available. according to IMO

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

 Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
 : As from August 24 2023 adequate training is required before industrial or professional use.

 Seveso Directive
 : As from August 24 2023 adequate training is required before industrial or professional use.

SECTION 15: Regulatory information

This product is controlled under the Seveso Directive.

Danger criteria Category P5c

EU regulations

| Industrial emissions (integrated pollution prevention and control) - Air | : Not listed |
|---|--|
| Industrial emissions (integrated pollution prevention and control) - Water | : Not listed |
| International regulations Chemical Weapon Convent | ion List Schedules I, II & III Chemicals |

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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 | : | This product contains substances for which Chemical Safety Assessments are still |
|----------------------|---|--|
| assessment | | required. |

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and | : ATE = Acute Toxicity Estimate |
|-------------------|---|
| acronyms | GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and |
| | Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 |
| | No. 720 and amendments |
| | DMEL = Derived Minimal Effect Level |
| | DNEL = Derived No Effect Level |
| | EUH statement = GB 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

| Classification | Justification |
|--------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Acute Tox. 4, H332 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |

Full text of abbreviated H statements

Hardtop Clear Comp B

SECTION 16: Other information

| <mark>⊮</mark> 225 | Highly flammable liquid and vapour. |
|--------------------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| 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. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH014 | Reacts violently with water. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications

| | ACUTE TOXICITY - Category 1 |
|------------------------|---|
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - 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 |
| Resp. Sens. 1 | RESPIRATORY SENSITISATION - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| Date of printing | : 05.04.2024 |
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Notice to reader

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