

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

SAFETY DATA SHEET

FR2-55 SEMI-GLOSS TUK BLACK BAC 706

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

1.1 Product identifier

Product name : FR2-55 SEMI-GLOSS TUK BLACK BAC 706
SDS code : 55930706K

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

| Identified uses |
|--|
| Paint. Professional use Industrial use |
| Uses advised against |
| All other uses |

Product use : Waterborne coating for interior use.

1.3 Details of the supplier of the safety data sheet

MAPAERO SAS
 10, Avenue de la Rijole CS30098
 09103 PAMIERS Cedex
 France

e-mail address of person responsible for this SDS : PSRA_PAMIERS@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

Supplier

Telephone number : +33 (0)5 34 01 34 01
 +33 (0)5 61 60 23 30

Hours of operation :

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 Sens. 1, H317

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

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SECTION 2: Hazards identification**Hazard pictograms****Signal word**

: Warning

Hazard statements: Flammable liquid and vapor.
May cause an allergic skin reaction.**Precautionary statements****Prevention**

: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.

Response

: Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Storage

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

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients: Polyisocyanate, aliphatic
C(M)IT/MIT(3:1)**Supplemental label elements**

: 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

: Not applicable.

Special packaging requirements**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 | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|---|-----|---------------------------------------|---------|
| 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatoethyl)-, reaction products with polyethylene glycol monomethyl ether | CAS: 129217-88-5 | ≤10 | Aquatic Chronic 3, H412 | [1] |
| 2-ethoxy-1-methylethyl acetate | EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8 | ≤10 | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] |
| Polyisocyanate, aliphatic | - | ≤3 | Skin Sens. 1, H317 | [1] |
| 2-butoxyethanol | REACH #: | <1 | Acute Tox. 4, H302 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | | | | |
|------------------------------|---|--------|--|---------|
| 4-isocyanatosulphonyltoluene | 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 EC: 223-810-8 CAS: 4083-64-1 Index: 615-012-00-7 | ≤0.3 | Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014 | [1] [2] |
| C(M)IT/MIT(3:1) | REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5 | ≤0.001 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 | [1] |
| 1,4-dioxane | EC: 204-661-8 CAS: 123-91-1 Index: 603-024-00-5 | <0.1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 1B, H350 STOT SE 3, H335 EUH019 EUH066 | [1] [2] |
| ethylene oxide | EC: 200-849-9 CAS: 75-21-8 Index: 603-023-00-X | <0.1 | Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372 (nervous system) | [1] [2] |
| ammonia, anhydrous | EC: 231-635-3 CAS: 7664-41-7 Index: 007-001-00-5 | <0.1 | Flam. Gas 2, H221 Press. Gas (Comp.), H280 Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1) | [1] [2] |
| chlorobenzene | REACH #: 01-2119432722-45 EC: 203-628-5 CAS: 108-90-7 Index: 602-033-00-1 | ≤0.1 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above. | [1] [2] |

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

SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 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 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 adverse health effects persist or are severe. 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.
- 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. 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 vapor 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 non-allergic 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 sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

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SECTION 4: First aid measures

Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, 4-isocyanatosulphonyltoluene, C(M)IT/MIT(3:1). May produce an allergic reaction.

Over-exposure signs/symptoms

| | |
|---------------------|--|
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

4.3 Indication of any immediate 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 | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |

5.2 Special hazards arising from the substance or mixture

| | |
|--|---|
| Hazards from the substance or mixture | : Flammable liquid and vapor. 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 halogenated compounds metal oxide/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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|------------------------------------|--|

SECTION 6: Accidental release measures

For emergency responders : If specialized 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 : Avoid dispersal of spilled 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 materials for containment 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 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

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 vapor 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. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

| | | | |
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SECTION 7: Handling and storage

Danger criteria

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

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|------------------------------|--|
| 2-butoxyethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. TWA: 123 mg/m ³ 8 hours. |
| 4-isocyanatosulphonyltoluene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitizer. STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes. TWA: 0.02 mg/m ³ , (as -NCO) 8 hours. |
| 1,4-dioxane | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 73 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. |
| ethylene oxide | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. TWA: 1 ppm 8 hours. TWA: 1.8 mg/m ³ 8 hours. |
| ammonia, anhydrous | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 25 mg/m ³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 18 mg/m ³ 8 hours. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous |
| chlorobenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 4.7 mg/m ³ 8 hours. STEL: 14 mg/m ³ 15 minutes. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

SECTION 8: Exposure controls/personal protection

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

| Product/ingredient name | Type | Exposure | Value | Population | Effects | |
|--------------------------------|------------------------------|-----------------------|------------------------|--------------------|--------------------|----------|
| 2-ethoxy-1-methylethyl acetate | DNEL | Long term Oral | 13.1 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 62 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 103 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 181 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 302 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 365 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 608 mg/m ³ | Workers | Systemic | |
| 2-butoxyethanol | DNEL | Long term Oral | 6.3 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Oral | 26.7 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 59 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 75 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 89 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 89 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 98 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 147 mg/m ³ | General population | Local | |
| | DNEL | Short term Inhalation | 246 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 426 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 1091 mg/m ³ | Workers | Systemic | |
| | 4-isocyanatosulphonyltoluene | DNEL | Long term Oral | 0.46 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 0.46 mg/kg bw/day | General population | Systemic |
| DNEL | | Long term Inhalation | 0.8 mg/m ³ | General population | Systemic | |
| DNEL | | Long term Dermal | 0.92 mg/kg bw/day | Workers | Systemic | |
| DNEL | | Long term Inhalation | 3.24 mg/m ³ | Workers | Systemic | |
| 1,4-dioxane | DNEL | Long term Oral | 0.24 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 12 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term | 18.25 mg/ | General | Systemic | |

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SECTION 8: Exposure controls/personal protection

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|--------------------|--------------------------|--------------------------------|--------------------------------------|-----------------------|-----------------------|----------|
| ammonia, anhydrous | DNEL | Inhalation Long term Dermal | m ³ 21 mg/kg bw/day | population Workers | Systemic | |
| | DNEL | Short term Inhalation | 72 mg/m ³ | General population | Local | |
| | DNEL | Long term Inhalation | 73 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 144 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 2.8 mg/m ³ | General population | Local | |
| | DNEL | Short term Oral | 6.8 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Oral | 6.8 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Dermal | 6.8 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Dermal | 6.8 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 7.2 mg/m ³ | General population | Local | |
| | DNEL | Long term Inhalation | 14 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 16 mg/m ³ | Workers | Local | |
| | DNEL | Short term Inhalation | 23.8 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 23.8 mg/m ³ | General population | Systemic | |
| | DNEL | Short term Inhalation | 47.6 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Inhalation | 47.6 mg/m ³ | Workers | Systemic | |
| | chlorobenzene | DNEL | Short term Dermal | 68 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 68 mg/kg bw/day | General population | Systemic |
| DNEL | | Short term Inhalation | 1 mg/m ³ | General population | Systemic | |
| DNEL | | Long term Inhalation | 1 mg/m ³ | General population | Systemic | |
| DNEL | | Short term Oral | 3 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Oral | 3 mg/kg bw/day | General population | Systemic | |
| DNEL | | Short term Dermal | 3 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Dermal | 3 mg/kg bw/day | General population | Systemic | |
| DNEL | | Long term Dermal | 5 mg/kg bw/day | Workers | Systemic | |
| DNEL | | Short term Dermal | 15 mg/kg bw/day | Workers | Systemic | |
| DNEL | Long term Inhalation | 23 mg/m ³ | Workers | Systemic | | |
| DNEL | Short term Inhalation | 70 mg/m ³ | Workers | Systemic | | |

PNECs

No PNECs available.

SECTION 8: Exposure controls/personal protection

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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

Eyeface protection : Safety eyewear complying with an approved standard 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 : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm.

When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended.

Recommended gloves: Nitrile, thickness ≥ 0.12 mm.

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

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

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Physical state : Liquid.
Color : Black.
Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.
Melting point/freezing point : Not available.
Initial boiling point and boiling range : Not available.
Flash point : Closed cup: 59°C
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Not available.
Vapor pressure : Not available.
Vapor density : Highest known value: >1 (Air = 1) (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether). Weighted average: 1.17 (Air = 1)
Density : 1.169 g/cm³
Solubility(ies) : Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Kinematic (room temperature): 0.77 cm²/s
 Kinematic (40°C): 1.01 cm²/s

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 : The product is stable.
10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials : Reactive or incompatible with the following materials:
 oxidizing materials
10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|-----------------------------------|-----------------------------------|------------|-------------------------|------------|
| 2-butoxyethanol | LC50 Inhalation Gas. | Mouse | 700 ppm | 7 hours |
| | LC50 Inhalation Gas. | Rat | 450 ppm | 4 hours |
| | LC50 Inhalation Vapor | Mouse | 3380 mg/m ³ | 7 hours |
| | LC50 Inhalation Vapor | Rat | 2900 mg/m ³ | 7 hours |
| | LD50 Dermal | Guinea pig | 230 uL/kg | - |
| | LD50 Dermal | Rabbit | 220 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 536 mg/kg | - |
| | LD50 Intraperitoneal | Rabbit | 220 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 220 mg/kg | - |
| | LD50 Intravenous | Mouse | 1130 mg/kg | - |
| | LD50 Intravenous | Rabbit | 252 mg/kg | - |
| | LD50 Intravenous | Rat | 307 mg/kg | - |
| | LD50 Oral | Guinea pig | 1200 mg/kg | - |
| | LD50 Oral | Mouse | 1230 mg/kg | - |
| | LD50 Oral | Mouse | 1167 mg/kg | - |
| | LD50 Oral | Rabbit | 300 mg/kg | - |
| | LD50 Oral | Rabbit | 320 mg/kg | - |
| | LD50 Oral | Rat | 917 mg/kg | - |
| | LD50 Oral | Rat | 250 mg/kg | - |
| | LD50 Route of exposure unreported | Mouse | 1050 mg/kg | - |
| LD50 Route of exposure unreported | Rat | 917 mg/kg | - | |
| 4-isocyanatosulphonyltoluene | LD50 Intraperitoneal | Rat | 775 mg/kg | - |
| | LD50 Oral | Rat | 2234 mg/kg | - |
| 1,4-dioxane | LC50 Inhalation Vapor | Mouse | 37 g/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 46 g/m ³ | 2 hours |
| | LD50 Dermal | Rabbit | 7600 uL/kg | - |
| | LD50 Intraperitoneal | Mouse | 790 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 799 mg/kg | - |
| | LD50 Oral | Guinea pig | 3150 mg/kg | - |
| | LD50 Oral | Mouse | 5300 mg/kg | - |
| | LD50 Oral | Rabbit | 2 g/kg | - |
| ethylene oxide | LD50 Oral | Rat | 4200 mg/kg | - |
| | LC50 Inhalation Gas. | Mouse | 835 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 800 ppm | 4 hours |
| | LC50 Inhalation Gas. | Rat | 1460 ppm | 4 hours |
| | LC50 Inhalation Vapor | Guinea pig | 1500 mg/m ³ | 4 hours |
| | LD50 Intraperitoneal | Mouse | 175 mg/kg | - |
| | LD50 Intravenous | Mouse | 290 mg/kg | - |
| | LD50 Oral | Guinea pig | 270 mg/kg | - |
| | LD50 Oral | Rat | 72 mg/kg | - |
| ammonia, anhydrous | LD50 Subcutaneous | Rat | 187 mg/kg | - |
| | LC50 Inhalation Gas. | Mouse | 4230 ppm | 1 hours |
| | LC50 Inhalation Gas. | Mouse | 4500 ppm | 1 hours |
| | LC50 Inhalation Gas. | Mouse | 21430 ppm | 30 minutes |
| | LC50 Inhalation Gas. | Rat | 9500 ppm | 1 hours |
| | LC50 Inhalation Gas. | Rat | 17401 ppm | 15 minutes |
| | LC50 Inhalation Gas. | Rat | 2000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Mouse | 4600 mg/m ³ | 2 hours |
| | LC50 Inhalation Vapor | Rabbit | 7 g/m ³ | 1 hours |
| | LC50 Inhalation Vapor | Rat | 7040 mg/m ³ | 30 minutes |
| | LC50 Inhalation Vapor | Rat | 4673 mg/kg | 4 hours |
| | LC50 Inhalation Vapor | Rat | 4673 mg/kg | 4 hours |
| | LC50 Inhalation Vapor | Rat | 18600 mg/m ³ | 5 minutes |
| chlorobenzene | LC50 Inhalation Gas. | Mouse | 4300 ppm | 2 hours |
| | LC50 Inhalation Gas. | Mouse | 1886 ppm | 6 hours |

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SECTION 11: Toxicological information

| | | | | |
|--|-----------------------------------|------------|-------------------------|------------|
| | LC50 Inhalation Gas. | Rat | 2965 ppm | 6 hours |
| | LC50 Inhalation Vapor | Rat | 39700 mg/m ³ | 3.75 hours |
| | LD50 Dermal | Rabbit | >7940 mg/kg | - |
| | LD50 Intraperitoneal | Mouse | 515 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 1655 mg/kg | - |
| | LD50 Oral | Guinea pig | 2250 mg/kg | - |
| | LD50 Oral | Mouse | 2300 mg/kg | - |
| | LD50 Oral | Rabbit | 2250 mg/kg | - |
| | LD50 Oral | Rat | 1110 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| | LD50 Oral | Rat | 1540 mg/kg | - |
| | LD50 Route of exposure unreported | Rabbit | 2830 mg/kg | - |
| | LD50 Route of exposure unreported | Rat | 2950 mg/kg | - |

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|--------------------------|------------|-------|-----------------|-------------|
| 2-butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| 4-isocyanatosulphonyltoluene | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 UI | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 UI | - |
| 1,4-dioxane | Eyes - Moderate irritant | Guinea pig | - | 10 ug | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| ethylene oxide | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 515 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 6 hours 18 mg | - |

Conclusion/Summary : Not available.

Sensitization

Conclusion/Summary : Not available.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|------|---------------------------|----------|
| ethylene oxide | - | Subject: Mammalian-Animal | Positive |

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--------------------------------|------------|-------------------|------------------------------|
| 2-ethoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| 4-isocyanatosulphonyltoluene | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

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SECTION 11: Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
 irritation
 redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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

SECTION 12: Ecological information

| Product/ingredient name | Result | Species | Exposure | |
|-----------------------------------|--------------------------------------|--|---|----------|
| 2-butoxyethanol | Acute EC50 >1000 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours | |
| | Acute LC50 800000 µg/l Marine water | Crustaceans - Crangon crangon | 48 hours | |
| 1,4-dioxane | Acute LC50 1490000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours | |
| | Acute LC50 1250000 µg/l Marine water | Fish - Menidia beryllina | 96 hours | |
| | Acute LC50 1.5 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours | |
| | Acute LC50 10800000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| | Acute LC50 9850000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| | Acute LC50 12326000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| | Acute LC50 9872000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| | Acute LC50 6700000 µg/l Marine water | Fish - Menidia beryllina | 96 hours | |
| | Chronic NOEC 145 mg/l Fresh water | Fish - Pimephales promelas | 32 days | |
| | Chronic NOEC 145 mg/l Fresh water | Fish - Pimephales promelas | 32 days | |
| ethylene oxide | Chronic NOEC 145 mg/l Fresh water | Fish - Pimephales promelas | 32 days | |
| | Acute LC50 1000000 µg/l Marine water | Crustaceans - Artemia sp. | 48 hours | |
| | Acute LC50 490000 µg/l Marine water | Crustaceans - Artemia sp. | 48 hours | |
| | Acute LC50 300000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours | |
| | Acute LC50 137000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours | |
| | Acute LC50 200000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours | |
| | Acute LC50 84000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| | ammonia, anhydrous | Acute EC50 29.2 mg/l Marine water | Algae - Ulva fasciata - Zoea | 96 hours |
| | | Acute LC50 2500 µg/l Fresh water | Crustaceans - Asellus aquaticus | 48 hours |
| | | Acute LC50 4980 µg/l Marine water | Crustaceans - Penaeus japonicus - Nauplii | 48 hours |
| Acute LC50 5210 µg/l Marine water | | Crustaceans - Fenneropenaeus penicillatus - Zoea | 48 hours | |
| Acute LC50 2080 µg/l Fresh water | | Crustaceans - Gammarus pulex | 48 hours | |
| Acute LC50 2710 µg/l Fresh water | | Crustaceans - Ceriodaphnia reticulata | 48 hours | |
| Acute LC50 0.53 ppm Fresh water | | Daphnia - Daphnia magna | 48 hours | |
| Acute LC50 25400 µg/l Fresh water | | Daphnia - Daphnia magna | 48 hours | |
| Acute LC50 4180 µg/l Fresh water | | Daphnia - Daphnia magna | 48 hours | |
| Acute LC50 4130 µg/l Fresh water | | Daphnia - Daphnia pulex | 48 hours | |
| Acute LC50 300 µg/l Fresh water | Fish - Hypophthalmichthys nobilis | 96 hours | | |
| chlorobenzene | Acute LC50 450 µg/l Fresh water | Fish - Oncorhynchus tshawytscha - Underyearling | 96 hours | |
| | Acute LC50 380 µg/l Fresh water | Fish - Hypophthalmichthys molitrix - Fingerling | 96 hours | |
| | Acute LC50 660 µg/l Fresh water | Fish - Cyprinus carpio | 96 hours | |
| | Acute LC50 440 µg/l Fresh water | Fish - Cyprinus carpio | 96 hours | |
| | Chronic NOEC 550 µg/l Fresh water | Fish - Rutilus rutilus - Embryo | 31 days | |
| | Chronic NOEC 0.204 mg/l Marine water | Fish - Dicentrarchus labrax | 62 days | |
| | Acute EC50 20.2 mg/l Fresh water | Algae - Chlorella marina | 72 hours | |
| | Acute EC50 19.6 mg/l Fresh water | Algae - Phaeodactylum tricornutum | 72 hours | |
| | Acute EC50 30.2 mg/l Fresh water | Algae - Platymonas subcordiformis | 72 hours | |
| | Acute EC50 12.5 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours | |
| chlorobenzene | Acute EC50 26.2 mg/l Fresh water | Algae - Nannochloropsis oculata | 72 hours | |
| | Acute EC50 3.43 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours | |
| | Acute LC50 7900 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours | |
| | Acute LC50 8900 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours | |
| | Acute LC50 11000 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours | |
| | Acute LC50 10400 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours | |

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SECTION 12: Ecological information

| | | |
|------------------------------------|--|----------|
| Acute LC50 11100 µg/l Fresh water | dubia - Neonate Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| Acute LC50 10.7 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Acute LC50 10700 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Acute LC50 8600 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Acute LC50 11500 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Acute LC50 12800 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| Acute LC50 4500 µg/l Fresh water | Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| Acute LC50 3480 µg/l Fresh water | Fish - Carassius auratus - Egg | 96 hours |
| Acute LC50 2370 µg/l Fresh water | Fish - Carassius auratus - Egg | 96 hours |
| Acute LC50 3.58 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Chronic NOEC 2 mg/kg Fresh water | Fish - Carassius auratus | 30 days |
| Chronic NOEC 8500 µg/l Fresh water | Fish - Danio rerio - Egg | 28 days |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--------------------------------|--------------------|------------|-----------|
| 2-ethoxy-1-methylethyl acetate | 0.76 | - | low |
| 2-butoxyethanol | 0.81 | - | low |
| 1,4-dioxane | -0.42 | 0.3 to 0.7 | low |
| ethylene oxide | -0.3 | - | low |
| chlorobenzene | 2.46 | 4.3 to 40 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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

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SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized 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** : The classification of the product may meet the criteria for a hazardous waste.
- Disposal considerations** : Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).
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 |
|---------------|---|
| EWC 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.
Empty containers must be scrapped or reconditioned.
Dispose of containers contaminated by the product in accordance with local or national legal provisions.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|---------------------------------|--|--|--|
| 14.1 UN number | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3  | 3  | 3  |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | No. | No. | No. |

Additional information

ADR/RID : **Tunnel code** (D/E)

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SECTION 14: Transport information

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 according to IMO instruments : Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : Not applicable.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

National regulations

SECTION 15: Regulatory information

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|--|-----------------------------|----------------|-------|
| ethylene oxide | UK Occupational Exposure Limits EH40 - WEL | ethylene oxide; epoxyethane | Carc. | - |

International regulations**Chemical Weapon Convention 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.

Inventory list

Europe : Not determined.

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

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 Skin Sens. 1, H317 | On basis of test data Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

| | |
|--------------------|--|
| H220 | Extremely flammable gas. |
| H221 | Flammable gas. |
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic 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. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H360F _d | May damage fertility. Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH014 | Reacts violently with water. |
| EUH019 | May form explosive peroxides. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH071 | Corrosive to the respiratory tract. |

Full text of classifications [CLP/GHS]

| | |
|--------------------|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Carc. 1B | CARCINOGENICITY - Category 1B |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Flam. Gas 1A | FLAMMABLE GASES - Category 1A |
| Flam. Gas 2 | FLAMMABLE GASES - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Muta. 1B | GERM CELL MUTAGENICITY - Category 1B |
| Press. Gas (Comp.) | GASES UNDER PRESSURE - Compressed gas |
| Repr. 1B | TOXIC TO REPRODUCTION - Category 1B |
| Resp. Sens. 1 | RESPIRATORY SENSITIZATION - Category 1 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITIZATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITIZATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 |

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SECTION 16: Other information

| | |
|--|--------------------------|
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Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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