SAFETY DATA SHEET



Label No :50624

TEKNOL 1889-11 - All variants

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

1.1 Product identifier

Product name : TEKNOL 1889-11 - All variants

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

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

1.4 Emergency telephone number

National advisory body/Poison Centre
Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

<u>Classification according to UK CLP/GHS</u>

Skin Sens. 1, H317 Aquatic Chronic 3, H412

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

Hazard pictograms



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P280 - Wear protective gloves.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response: $\overrightarrow{P}362 + P364 - Take off contaminated clothing and wash it before reuse.$

P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

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SECTION 2: Hazards identification

Supplemental label elements

: Contains biocidal products for in-can preservation: IPBC and BIT and Bronopol and MIT and OIT and DTBMA and MBIT. Risk of skin sensitisation.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: 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 | Type |
|--------------------------------------|---|------|--|---------|
| 2-Butoxyethanol | REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 | ≤3 | Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | [1] [2] |
| Propan-2-ol | REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 | <1 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | [1] [2] |
| 3-iodo-2-propynyl-butyl carbamate | EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7 | <1 | Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] |
| Dipropyleneglycolmethylether | REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8 | ≤0.3 | Not classified. | [2] |
| Cobalt bis(2-ethylhexanoate) | REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7 | <0.1 | Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 | [1] [2] |
| 2-ethylhexanoic acid, zirconium salt | REACH #: 01-2119979088-21 EC: 245-018-1 CAS: 22464-99-9 | ≤0.1 | Repr. 2, H361d | [1] [2] |
| 2-Methylpentane-2,4-diol | REACH #: 01-2119539582-35 EC: 203-489-0 CAS: 107-41-5 Index: 603-053-00-3 | ≤0.1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 | [1] [2] |
| iso-butanol | REACH #: 01-2119484609-23 | ≤0.1 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 | [1] [2] |

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| SECTION 3: Composit | ion/information on i | ngredients | | |
|------------------------------|---|------------|--|---------|
| 2-methyl-2H-isothiazol-3-one | EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 EC: 220-239-6 CAS: 2682-20-4 | <0.01 | Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 | [1] |
| Ammonia | REACH #: 01-2119488876-14 | <0.1 | Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071 Skin Corr. 1B, H314 Eye Dam. 1, H318 | [1] [2] |
| 2-Octyl-2H-isothiazol-3-one | EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2 EC: 247-761-7 | ≤0.0099 | STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Acute Tox. 3, H301 | [1] |
| | CAS: 26530-20-1 Index: 613-112-00-5 | | Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 | |
| 2-Ethoxyethanol | EC: 203-804-1 CAS: 110-80-5 Index: 603-012-00-X | <0.1 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H331 Repr. 1B, H360FD | [1] [2] |
| Propylene glycol | REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 | ≤0.1 | Not classified. | [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

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.

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SECTION 4: First aid measures

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 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 aloves.

4.2 Most important symptoms and effects, both acute and delayed

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.

: No specific treatment. **Specific treatments**

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

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.

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.

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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. 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".

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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. 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. 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 spilt 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. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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.

7.3 Specific end use(s)

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SECTION 7: Handling and storage

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Z-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/m³ 15 minutes. TWA: 123 mg/m³ 8 hours.

Propan-2-ol EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 1250 mg/m³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m³ 8 hours. TWA: 400 ppm 8 hours.

Dipropyleneglycolmethylether EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Cobalt bis(2-ethylhexanoate) EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and

cobalt compounds as Co] Inhalation sensitiser.

TWA: 0.1 mg/m³, (as Co) 8 hours.

2-ethylhexanoic acid, zirconium salt EH40/2005 WELs (United Kingdom (UK), 1/2020). [zirconium

compounds as Zr]

STEL: 10 mg/m³, (as Zr) 15 minutes. TWA: 5 mg/m³, (as Zr) 8 hours.

2-Methylpentane-2,4-diol EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 123 mg/m³ 15 minutes. STEL: 25 ppm 15 minutes. TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

iso-butanol EH40/2005 WELs (United Kingdom (UK), 1/2020).

STEL: 231 mg/m³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

Ammonia EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia

anhydrous]

STEL: 25 mg/m³ 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m³ 8 hours. Form: anhydrous

2-Ethoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin. TWA: 2 ppm 8 hours.

TWA: 2 ppin 6 hours.
TWA: 8 mg/m³ 8 hours.

Propylene glycol EH40/2005 WELs (United Kingdom (UK), 1/2020).

TWA: 10 mg/m³ 8 hours. Form: Particulate

TWA: 474 mg/m³ 8 hours. Form: total vapour and particulates TWA: 150 ppm 8 hours. Form: total vapour and particulates

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Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|--|
| | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift. |

Recommended monitoring procedures

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.

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SECTION 8: Exposure controls/personal protection

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|--------------------------------------|------|--------------------------------|------------------------|-----------------------|----------|
| 2 -Butoxyethanol | DNEL | Long term Oral | 6.3 mg/kg | General | Systemic |
| | DNEL | Short term Oral | bw/day 26.7 mg/ | population General | Systemic |
| | DNEL | Long term | kg bw/day 59 mg/m³ | population General | Systemic |
| | DNEL | Inhalation Long term | 98 mg/m³ | population Workers | Systemic |
| | DNEL | Inhalation Short term | 147 mg/m³ | General | Local |
| | | Inhalation | | population | |
| | 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/ m³ | Workers | Systemic |
| Propan-2-ol | DNEL | Long term Oral | 26 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 89 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 319 mg/kg bw/day | General | Systemic |
| | DNEL | Long term | 500 mg/m ³ | population Workers | Systemic |
| | DNEL | Inhalation Long term Dermal | 888 mg/kg bw/day | Workers | Systemic |
| 3-iodo-2-propynyl-butyl carbamate | DNEL | Long term Inhalation | 0.023 mg/ | Workers | Systemic |
| | DNEL | Short term Inhalation | 0.07 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |
| Dipropyleneglycolmethylether | DNEL | Long term Oral | 36 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 37.2 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 121 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 283 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 308 mg/m ³ | Workers | Systemic |
| Cobalt bis(2-ethylhexanoate) | DNEL | Long term Inhalation | 37 μg/m³ | General population | Local |
| | DNEL | Long term Oral | 175 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 235.1 µg/ m³ | Workers | Local |
| 2-ethylhexanoic acid, zirconium salt | DNEL | Long term Inhalation | 2.5 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 2.5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 3.25 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 5 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 6.49 mg/ kg bw/day | Workers | Systemic |
| 2-Methylpentane-2,4-diol | DNEL | Long term Oral | 1.5 mg/kg | General | Systemic |

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SECTION 8: Exposure controls/personal protection

| • | • | - | | | |
|---------------------------------------|--------|---------------------------------------|-----------------------|---|----------|
| | | | bw/day | population | |
| | DNEL | Long term | 7.8 mg/m ³ | General | Systemic |
| | | Inhalation | · · | population | , |
| | DNEL | Long term Dermal | 15 mg/kg | General | Systemic |
| | | Zong tonin Bonnai | bw/day | population | Cyclonia |
| | DNEL | Long term | 25 mg/m ³ | General | Local |
| | DIVLL | Inhalation | 25 mg/m | population | Local |
| | DNEL | Long term Dermal | 42 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term Inhalation | 44.4 mg/m³ | Workers | Systemic |
| | DNEL | Short term | 49 mg/m³ | General | Local |
| | | Inhalation | 3 | population | |
| | DNEL | Long term | 49 mg/m³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 98 mg/m³ | Workers | Local |
| | DIVEL | Inhalation | oo mg/m | Workoro | 20001 |
| iso-butanol | DNEL | Long term | 55 mg/m³ | General | Local |
| loo batarior | DIVLL | Inhalation | oo mg/m | population | Local |
| | DNEL | Long term | 310 mg/m ³ | Workers | Local |
| | DINLL | Inhalation | 3 to mg/m | WOIKEIS | Local |
| 2-methyl-2H-isothiazol-3-one | DNEL | Long term | 0.021 mg/ | General | Local |
| 2-111eti 1yi-21 I-180ti ila201-3-011e | DINLL | Inhalation | m ³ | population | Local |
| | DNEL | Long term | 0.021 mg/ | Workers | Local |
| | DINEL | | m ³ | Workers | Local |
| | DNIEL | Inhalation | | Camaral | Cuatamia |
| | DNEL | Long term Oral | 0.027 mg/ | General | Systemic |
| | DAIEI | Ol 4 4 | kg bw/day | population | Land |
| | DNEL | Short term | 0.043 mg/ | General | Local |
| | DATE | Inhalation | m³ | population | |
| | DNEL | Short term Inhalation | 0.043 mg/ m³ | Workers | Local |
| | DNEL | Short term Oral | 0.053 mg/ | General | Systemic |
| | | | kg bw/day | population | = |
| 2-Ethoxyethanol | DNEL | Long term | 83 µg/m³ | Workers | Systemic |
| | | Inhalation | | | - |
| | DNEL | Long term Dermal | 0.3 mg/kg | Workers | Systemic |
| | |] | bw/day | | |
| Propylene glycol | DNEL | Long term | 10 mg/m³ | General | Local |
| | | Inhalation | 3 | population | |
| | DNEL | Long term | 10 mg/m³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term | 50 mg/m ³ | General | Systemic |
| | , | Inhalation | g/ | population | |
| | DNEL | Long term | 168 mg/m³ | Workers | Systemic |
| | DI VEE | Inhalation | 100 1119/111 | *************************************** | Cyclonic |
| | | II II I I I I I I I I I I I I I I I I | | | |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

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SECTION 8: Exposure controls/personal protection

Eve/face 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.

Recommendations: Wear suitable gloves tested to EN374.

> 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm Not recommended polyvinyl alcohol (PVA) gloves

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.

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.

Filter type (spray application): A P

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

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 : Liquid.
Colour : Clear.
Odour : Slight

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

Ingredient name

boiling range

2-Butoxyethanol

water

°C °F Method

IP 123-93

339.8 to 340.7

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits

: Lower: Not applicable. Upper: Not applicable.

171 to 171.5

Flash point : Closed cup: >100°C (>212°F)

Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|---------------------------------------|-----|-------|-----------|
| Propanol, 1-(2-butoxy-1-methylethoxy) | 194 | 381.2 | EU A.15 |
| 2-Butoxyethanol | 230 | 446 | DIN 51794 |

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SECTION 9: Physical and chemical properties

Decomposition temperature: Not available.

PH : 7.7 to 8.5 [Conc. (% w/w): 100%]

Viscosity : Not available.

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

watei

Vapour pressure :

| | Va | Vapour Pressure at 20°C | | Va | apour pres | ssure at 50°C |
|---------------------|---------|-------------------------|--------|-------|------------|---------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| <mark>w</mark> ater | 17.5 | 2.3 | | | | |
| 2-Butoxyethanol | 0.75006 | 0.1 | | | | |

Relative density : Not available.

Density : 1 g/cm³

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Particle characteristics

Median particle size : Not applicable.

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 : No specific data.

10.5 Incompatible materials : No specific data.

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 |
|------------------------------|---------------------------|---------|-------------|----------|
| Propan-2-ol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| 3-iodo-2-propynyl-butyl | LC50 Inhalation Dusts and | Rat | 0.67 g/m³ | 4 hours |
| carbamate | mists | | | |
| | LC50 Inhalation Dusts and | Rat | 0.763 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 400 mg/kg | - |
| Cobalt bis(2-ethylhexanoate) | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 1.22 g/kg | - |
| 2-ethylhexanoic acid, | LD50 Dermal | Rabbit | >5 g/kg | - |
| | | | | |

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| zirconium salt | | | | | |
|-----------------------------|---------------------------|--------|-------------------------|---------|--|
| | LD50 Oral | Rat | >5 g/kg | - | |
| 2-Methylpentane-2,4-diol | LD50 Oral | Rat | 3700 mg/kg | - | |
| iso-butanol | LC50 Inhalation Vapour | Rat | 19200 mg/m ³ | 4 hours | |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - | |
| | LD50 Oral | Rat | 2460 mg/kg | - | |
| 2-methyl-2H-isothiazol- | LC50 Inhalation Dusts and | Rat | 0.11 mg/l | 4 hours | |
| 3-one | mists | | _ | | |
| Ammonia | LD50 Oral | Rat | 350 mg/kg | - | |
| 2-Octyl-2H-isothiazol-3-one | LD50 Dermal | Rabbit | 690 mg/kg | - | |
| | LD50 Oral | Rat | 550 mg/kg | - | |
| 2-Ethoxyethanol | LD50 Dermal | Rabbit | 3.6 g/kg | - | |
| | LD50 Dermal | Rat | 3900 mg/kg | - | |
| | LD50 Oral | Rat | 2125 mg/kg | - | |
| Propylene glycol | LD50 Dermal | Rabbit | 20800 mg/kg | - | |
| | LD50 Oral | Rat | 20 g/kg | - | |
| | i e | I | l | | |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

| Route | ATE value |
|----------------------|--|
| Inhalation (vapours) | 67290.35 mg/kg 616.83 mg/l 223.11 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------|--------------------------|------------|-------|--------------------|-------------|
| 2 -Butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 | - |
| | Free Carray implement | D-LL: | | mg | |
| | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| D | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Propan-2-ol | Eyes - Moderate irritant | Rabbit | - | 10 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Severe irritant | Rabbit | _ | 100 mg | _ |
| | Skin - Mild irritant | Rabbit | _ | 500 mg | _ |
| 3-iodo-2-propynyl-butyl | Eyes - Severe irritant | Rabbit | _ | - | _ |
| carbamate | | | | | |
| Dipropyleneglycolmethylether | Eyes - Mild irritant | Human | - | 8 mg | - |
| | Eyes - Mild irritant | Rabbit | _ | 24 hours 500 | _ |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| 2-Methylpentane-2,4-diol | Skin - Mild irritant | Rabbit | - | 465 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| Ammonia | Eyes - Severe irritant | Rabbit | - | 0.5 minutes | - |
| | | | | 1 mg | |
| | Eyes - Severe irritant | Rabbit | - | 250 ug | - |
| 2-Octyl-2H-isothiazol-3-one | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| 2-Ethoxyethanol | Eyes - Mild irritant | Guinea pig | - | 10 ug | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Eyes - Moderate irritant | Rabbit | - | 50 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Propylene glycol | Eyes - Mild irritant | Rabbit | - | 100 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Human | - | 168 hours | - |
| | | | | 500 mg | |
| | Skin - Mild irritant | Woman | - | 96 hours 30 | - |
| | | | | % | |
| | Skin - Moderate irritant | Child | - | 96 hours 30 | - |
| | | | | % C | |
| | Skin - Moderate irritant | Human | - | 72 hours 104 | - |
| | | | | mg I | |
| I | | | | 1 | |

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Conclusion/Summary

Based on available data, the classification criteria are not met.

Skin

: Based on available data, the classification criteria are not met.

Eyes

: Based on available data, the classification criteria are not met.

Respiratory

: Based on available data, the classification criteria are not met.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-----------------------------------|-------------------|------------|-----------------|
| 3-iodo-2-propynyl-butyl carbamate | skin | Guinea pig | Not sensitizing |

Conclusion/Summary

May cause an allergic skin reaction.

Skin

: May produce an allergic reaction.

Respiratory

: Based on available data, the classification criteria are not met.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|------|----------------------|----------|
| 3-iodo-2-propynyl-butyl | - | Experiment: In vitro | Negative |
| carbamate | | Subject: Bacteria | |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|-----------------------------------|-------------------|-----------|---------------------|---------|-------------------|--------------------------------|
| 3-iodo-2-propynyl-butyl carbamate | Negative | - | Negative | | Oral: 20 mg/kg | 13 days; 7 days per week |
| | Positive | - | Negative | | Oral: 50 mg/kg | 13 days; 7 days per week |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Teratogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-----------------------------------|-----------------|-----------------|----------|----------|
| 3-iodo-2-propynyl-butyl carbamate | Negative - Oral | Rabbit - Female | 50 mg/kg | - |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|--------------------------|-------------------|---|
| | Category 3 Category 3 | | Narcotic effects Respiratory tract irritation |
| | Category 3 Category 3 | | Narcotic effects Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-----------------------------------|------------|-------------------|---------------|
| 3-iodo-2-propynyl-butyl carbamate | Category 1 | - | larynx |

Aspiration hazard

Not available.

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Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

: May cause an allergic skin reaction. Skin contact

: No known significant effects or critical hazards. Ingestion

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:

redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Based on available data, the classification criteria are not met.

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

| Product/ingredient name | Result | Species | Exposure |
|--------------------------------------|--------------------------------------|--|----------|
| 2-Butoxyethanol | Acute EC50 >1000 mg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 800000 μg/l Marine water | Crustaceans - Common shrimp, sand shrimp - Crangon crangon | 48 hours |
| | Acute LC50 1250000 μg/l Marine water | Fish - Inland silverside - Menidia beryllina | 96 hours |
| Propan-2-ol | Acute EC50 10100 mg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 1400000 μg/l Marine water | Crustaceans - Common shrimp, sand shrimp - Crangon crangon | 48 hours |
| | Acute LC50 4200000 μg/l Fresh water | Fish - Harlequinfish, red rasbora - Rasbora heteromorpha | 96 hours |
| 3-iodo-2-propynyl-butyl carbamate | Acute EC50 0.022 mg/l Fresh water | Algae - Algae - Scenedemus subspicatus | 72 hours |

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| Acute LC50 0.067 mg/l Fresh water Acute NOEC 0.049 mg/l Fresh water Chronic NOEC 0.05 mg/l Fresh water Acute EC50 2800000 µg/l Fresh water Acute EC50 2800000 µg/l Fresh water Acute EC50 3200000 µg/l Fresh water Acute LC50 8000000 µg/l Marine water Acute LC50 600 mg/l Marine water Acute LC50 1030000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute LC50 0.18 ppm Fresh water Acute LC50 0.7 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 17 ppb Fresh water Acute LC50 17 ppb Fresh water Acute LC50 17 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Acute LC50 1330000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Acute LC50 1330000 µg/l Fresh water Acute LC50 13300000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Acute LC50 1330000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute LC50 13300000 µg/l Fresh water Acute LC50 133000000 µg/l Fresh water Acute LC50 1330000000000000000000000000000000000 | _ | | | | |
|--|---|------------------------------|--------------------------------------|---------------------------------------|----------|
| Acute LC50 0.067 mg/l Fresh water Acute NOEC 0.049 mg/l Fresh water Chronic NOEC 0.05 mg/l Fresh water Chronic NOEC 0.05 mg/l Fresh water Chronic NOEC 0.05 mg/l Fresh water Acute EC50 28000000 µg/l Fresh water Acute EC50 32000000 µg/l Fresh water Acute LC50 80000000 µg/l Fresh water Acute LC50 80000000 µg/l Fresh water Acute LC50 80000000 µg/l Marine water Acute LC50 6000 mg/l Marine water Acute LC50 10300000 µg/l Fresh water Acute LC50 10300000 µg/l Fresh water Acute LC50 13300000 µg/l Fresh water Acute LC50 13300000 µg/l Fresh water Acute LC50 13300000 µg/l Fresh water Acute LC50 18 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 47 ppb Fresh water Acute LC50 40800000 µg/l Fresh water Acute LC50 408000000 µg/l Fresh water Acute LC50 40800000000 µg/l Fresh water Acute LC50 4080000000000000000000000000000000000 | | | Acute EC50 0.16 mg/l Fresh water | · · · · · · · · · · · · · · · · · · · | 48 hours |
| Acute NOEC 0.049 mg/l Fresh water Chronic NOEC 0.05 mg/l Fresh water Acute EC50 2800000 µg/l Fresh water Acute EC50 3200000 µg/l Fresh water Acute EC50 3200000 µg/l Fresh water Acute LC50 8000000 µg/l Marine water Acute LC50 8000000 µg/l Marine water Acute LC50 1030000 µg/l Fresh water Acute LC50 1030000 µg/l Fresh water Acute LC50 1030000 µg/l Fresh water Acute LC50 1330000 µg/l Fresh water Acute LC50 139000 µg/l Fresh water Acute LC50 107 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 107 ppb Fresh water Acute LC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 107000000 µg/l Fresh water Acute LC50 1070000000 µg/l Fresh water Acute LC50 107000000 µg/l Fresh water Acute LC50 1070000000 µg/l Fresh water Acute LC50 1070000000 µg/l Fresh water Acute LC50 107000000 µg/l Fresh water Acute LC50 107000000 µg/l Fresh water Acute LC50 1070000000 µg/l Fresh water Acute LC50 10700000000 µg/l Fresh water Acute LC50 | | | Acute LC50 0.067 mg/l Fresh water | Fish - Trout - Oncorhynchus | 96 hours |
| Chronic NOEC 0.05 mg/l Fresh water Acute EC50 2800000 μg/l Fresh water Acute EC50 3200000 μg/l Fresh water Acute LC50 8000000 μg/l Fresh water Acute LC50 8000000 μg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1030000 μg/l Fresh water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 0.18 ppm Fresh water Acute LC50 0.7 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 107 ppb Fresh water Acute LC50 107 ppb Fresh water Acute LC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Acute LC50 19300 mg/l Fresh water Acute LC50 19300 mg/l Fresh water Acute LC50 19300 mg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 1800000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water | | | Acute NOEC 0.049 mg/l Fresh water | Fish - Trout - Oncorhynchus | 96 hours |
| Acute EC50 2800000 μg/l Fresh water Acute EC50 3200000 μg/l Fresh water Acute LC50 8000000 μg/l Marine water Acute LC50 8000000 μg/l Marine water Acute LC50 1030000 μg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 0.18 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute EC50 107 ppb Fresh water Acute LC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 74 ppb Fresh water Acute LC50 10000000 μg/l Fresh water Acute EC50 10000000 μg/l Fresh water Acute EC50 19300 mg/l Fresh water Acute EC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water | | | Chronic NOEC 0.05 mg/l Fresh water | Daphnia - Daphnia - <i>Daphnia</i> | 21 days |
| Acute LC50 8000000 μg/l Marine water Acute LC50 600 mg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 74 ppb Fresh water Acute LC50 19300 mg/l Fresh water Acute LC50 19300 mg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute Cororhynchus Fresh water Acute LC50 40613 mg/l Fresh water Acute Cororhynchus Fresh water Acute Cororhynchus Fresh water Acute Cororhynchus Fresh water Acute Cororhynchus Fresh water Acute LC50 40613 mg/l Fresh water Acute Cororhynchus Fresh water Acute Coronhynchus Fresh wate | | 2-Methylpentane-2,4-diol | Acute EC50 2800000 µg/l Fresh water | Crustaceans - Water flea - | 48 hours |
| Acute LC50 600 mg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 74 ppb Fresh water Acute LC50 >10000000 μg/l Fresh water Acute LC50 19300 mg/l Fresh water Acute EC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water | | | Acute EC50 3200000 μg/l Fresh water | | 48 hours |
| Acute LC50 600 mg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 74 ppb Fresh water Acute LC50 >10000000 μg/l Fresh water Acute LC50 19300 mg/l Fresh water Acute EC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water | | | Acute LC50 8000000 µg/l Marine water | Fish - Bleak - Alburnus alburnus | 96 hours |
| Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water 2-methyl-2H-isothiazol-3-one Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water Acute EC50 107 ppb Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 210000000 μg/l Fresh water 2-Ethoxyethanol Acute LC50 19300 mg/l Fresh water Acute EC50 19300 mg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 10000000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water | | iso-butanol | | Crustaceans - Brine shrimp - | 48 hours |
| Acute LC50 1330000 μg/l Fresh water 2-methyl-2H-isothiazol-3-one Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb 2-Ethoxyethanol Acute LC50 10300 mg/l Fresh water Acute EC50 19300 mg/l Fresh water Acute EC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40000000 pg/l Fresh water Acute LC50 40613 mg/l Fresh water Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Fathead minnow - Pimephales promelas Fish - Bluegill - Lepomis macrochirus Acute LC50 18340000 μg/l Fresh water Ceriodaphnia dubia Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Acute LC50 190000000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water | | | Acute LC50 1030000 μg/l Fresh water | Daphnia - Water flea - <i>Daphnia</i> | 48 hours |
| 2-methyl-2H-isothiazol-3-one Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Onco | | | Acute LC50 1330000 μg/l Fresh water | Fish - Rainbow trout,donaldson | 96 hours |
| Acute LC50 0.07 ppm Fresh water Acute LC50 37 ppm Fresh water Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb 2-Ethoxyethanol Propylene glycol Acute EC50 19300 mg/l Fresh water Acute LC50 43500 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - Rainbow trout, donaldson trout - Oncorhynchus | | 2-methyl-2H-isothiazol-3-one | Acute EC50 0.18 ppm Fresh water | Daphnia - Water flea - <i>Daphnia</i> | 48 hours |
| Ammonia Acute LC50 37 ppm Fresh water 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Fish - Western mosquitofish - Gambusia affinis - Adult Daphnia - Water flea - Daphnia magna Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Chronic NOEC 8.5 ppb Fish - Fathead minnow - Pimephales promelas Fish - Bluegill - Lepomis macrochirus Acute EC50 19300 mg/l Fresh water Acute EC50 43500 mg/l Fresh water Acute LC50 18340000 µg/l Fresh water Acute LC50 18340000 µg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Fish - Western mosquitofish - Gambusia affinis - Adult Daphnia - Water flea - Daphnia magna Fish - Rainbow trout,donaldson trout - Oncorhynchus | | | Acute LC50 0.07 ppm Fresh water | Fish - Rainbow trout,donaldson | 96 hours |
| 2-Octyl-2H-isothiazol-3-one Acute EC50 107 ppb Fresh water Acute LC50 47 ppb Fresh water Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb 2-Ethoxyethanol Propylene glycol Acute LC50 19300 mg/l Fresh water Acute EC50 19300 mg/l Fresh water Acute LC50 18340000 µg/l Fresh water Acute LC50 18340000 µg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 100 ppb Fresh water Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss Daphnia - Water flea - Daphnia magna Fish - Rainbow trout, donaldson trout - Oncorhynchus magna Fish - | | Ammonia | Acute LC50 37 ppm Fresh water | Fish - Western mosquitofish - | 96 hours |
| Acute LC50 47 ppb Fresh water Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb 2-Ethoxyethanol Acute LC50 >10000000 μg/l Fresh water Propylene glycol Acute EC50 19300 mg/l Fresh water Acute EC50 43500 mg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 47 ppb Fresh water Daphnia - Water flea - Daphnia magna Chronic NOEC 8.5 ppb Fish - Rainbow trout,donaldson trout - Oncorhynchus frout - Oncorhynchus frout - Oncorhynchus | | 2-Octyl-2H-isothiazol-3-one | Acute EC50 107 ppb Fresh water | Daphnia - Water flea - <i>Daphnia</i> | 48 hours |
| Chronic NOEC 74 ppb Fresh water Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Chronic NOEC 8.5 ppb Fish - Fathead minnow - Pimephales promelas Fish - Bluegill - Lepomis macrochirus Acute EC50 19300 mg/l Fresh water Acute EC50 43500 mg/l Fresh water Acute EC50 18340000 µg/l Fresh water Acute LC50 18340000 µg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Chronic NOEC 74 ppb Fresh water magna Fish - Fathead minnow - Pimephales promelas Fish - Bluegill - Lepomis macrochirus Algae - Algae Daphnia - Daphnia magna Crustaceans - Water flea - Ceriodaphnia dubia Fish - Trout - Oncorhynchus | | | Acute LC50 47 ppb Fresh water | Fish - Rainbow trout,donaldson | 96 hours |
| 2-Ethoxyethanol Acute LC50 >10000000 μg/l Fresh water Propylene glycol Acute EC50 19300 mg/l Fresh water Acute EC50 43500 mg/l Fresh water Acute LC50 18340000 μg/l Fresh water Acute LC50 40613 mg/l Fresh water Acute LC50 40613 mg/l Fresh water Pimephales promelas Fish - Bluegill - Lepomis macrochirus Algae - Algae Daphnia - Daphnia magna Crustaceans - Water flea - Ceriodaphnia dubia Fish - Trout - Oncorhynchus | | | Chronic NOEC 74 ppb Fresh water | | 21 days |
| water Propylene glycol Acute EC50 19300 mg/l Fresh water Acute EC50 43500 mg/l Fresh water Daphnia - Daphnia - Daphnia magna Acute LC50 18340000 µg/l Fresh water Crustaceans - Water flea - Ceriodaphnia dubia Acute LC50 40613 mg/l Fresh water | | | Chronic NOEC 8.5 ppb | | 35 days |
| Acute EC50 43500 mg/l Fresh water Daphnia - Daphnia - Daphnia - magna Acute LC50 18340000 µg/l Fresh water Crustaceans - Water flea - Ceriodaphnia dubia Acute LC50 40613 mg/l Fresh water Fish - Trout - Oncorhynchus | | 2-Ethoxyethanol | . • | | 96 hours |
| Acute EC50 43500 mg/l Fresh water Daphnia - Daphnia - Daphnia - magna Acute LC50 18340000 µg/l Fresh water Crustaceans - Water flea - Ceriodaphnia dubia Acute LC50 40613 mg/l Fresh water Fish - Trout - Oncorhynchus | | Propylene glycol | Acute EC50 19300 mg/l Fresh water | Algae - Algae | 96 hours |
| Acute LC50 18340000 μg/l Fresh water Crustaceans - Water flea - Ceriodaphnia dubia Acute LC50 40613 mg/l Fresh water Fish - Trout - Oncorhynchus | | ., 0, | | Daphnia - Daphnia - <i>Daphnia</i> | 48 hours |
| Acute LC50 40613 mg/l Fresh water Fish - Trout - Oncorhynchus | | | Acute LC50 18340000 μg/l Fresh water | Crustaceans - Water flea - | 48 hours |
| ,, | | | Acute LC50 40613 mg/l Fresh water | | 96 hours |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| iso-butanol | - | 74 % - Readily - 28 days | - | - |

: This product has not been tested for biodegradation. **Conclusion/Summary**

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------------|-------------------|------------|--------------------|
| 3-iodo-2-propynyl-butyl carbamate | - | - | Not readily |
| iso-butanol Propylene glycol | - | - | Readily Readily |

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------------------|--------|-------|-----------|
| 2-Butoxyethanol | 0.81 | - | Low |
| Propan-2-ol | 0.05 | - | Low |
| 3-iodo-2-propynyl-butyl carbamate | >1 | - | Low |
| Dipropyleneglycolmethylether | 0.004 | _ | Low |
| Cobalt bis(2-ethylhexanoate) | | 15600 | High |
| 2-ethylhexanoic acid, zirconium salt | - | 2.96 | Low |
| 2-Methylpentane-2,4-diol | 0.58 | - | Low |
| iso-butanol | 1 | - | Low |
| 2-Octyl-2H-isothiazol-3-one | 2.45 | - | Low |
| 2-Ethoxyethanol | -0.32 | _ | Low |
| Propylene glycol | -1.07 | - | 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

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

: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

: 080111*

Packaging

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.

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| | | | | |
| | | | | |

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SECTION 14: Transport information 14.3 Transport hazard class(es) 14.4 Packing group 14.5 No. No. No. No. **Environmental** hazards

user

14.6 Special precautions for : 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 relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

| Intrinsic property | Ingredient name | | | Date of revision |
|-----------------------|-----------------|-----------|---|------------------|
| voxic to reproduction | 2-ethoxyethanol | Candidate | - | 12/15/2010 |

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

No listed substance

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

| Product/ingredient name | List name | Name on list | Classification | Notes |
|------------------------------|--|--------------------------------------|----------------|-------|
| Cobalt bis(2-ethylhexanoate) | UK Occupational Exposure Limits EH40 - WEL | cobalt and cobalt compounds as Co | Carc. | - |

EU regulations

Industrial emissions (integrated pollution prevention and control) -

: Not listed

Air

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SECTION 15: Regulatory information

Industrial emissions (integrated pollution

: Not listed

prevention and control) - Water

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.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

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 | |
|---|---------------------------------------|--|
| Skin Sens. 1, H317 Aquatic Chronic 3, H412 | Calculation method Calculation method | |

Full text of abbreviated H statements

| ⊮ 225 | Highly flammable liquid and vapour. |
|--------------|--|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360F | May damage fertility. |
| H360FD | May damage fertility. May damage the unborn child. |

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SECTION 16: Other information

H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 H412 Harmful to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract.

Full text of classifications

Acute Tox. 2 ACUTE TOXICITY - Category 2 Acute Tox. 3 **ACUTE TOXICITY - Category 3** Acute Tox. 4 **ACUTE TOXICITY - Category 4** SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Aquatic Chronic 3 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eve Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 1B REPRODUCTIVE TOXICITY - Category 1B Repr. 2 **REPRODUCTIVE TOXICITY - Category 2** Skin Corr. 1 SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - 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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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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