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Replacing version dated / version: 04.03.2024 / 0037
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Steinschlagschutz schwarz
Stoneguard, black

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

**Steinschlagschutz schwarz
Stoneguard, black**

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

Relevant identified uses of the substance or mixture:

Corrosion protection

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH
Jerg-Wieland-Str. 4
89081 Ulm-Lehr
Tel.: (+49) 0731-1420-0
Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

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Landspítali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement |
|-----------------|-----------------|---|
| Eye Irrit. | 2 | H319-Causes serious eye irritation. |
| Skin Irrit. | 2 | H315-Causes skin irritation. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| STOT SE | 3 | H336-May cause drowsiness or dizziness. |
| Aquatic Chronic | 2 | H411-Toxic to aquatic life with long lasting effects. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |

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2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H319-Causes serious eye irritation. H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.
 P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.
 P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
 P501-Dispose of contents / container to an approved waste disposal facility.

Without adequate ventilation, formation of explosive mixtures may be possible.
 Butanone

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

| Dimethyl ether | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH) | --- |
| Index | 603-019-00-8 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 204-065-8 |
| CAS | 115-10-6 |
| content % | 25-50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Gas 1A, H220 |

| | |
|---|-----------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | |
| Registration number (REACH) | 01-2119475514-35-XXXX |
| Index | --- |

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| | |
|---|--|
| EINECS, ELINCS, NLP, REACH-IT List-No. | 921-024-6 |
| CAS | --- |
| content % | 10-<25 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

| | |
|---|--|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | |
| Registration number (REACH) | 01-2119475515-33-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 927-510-4 |
| CAS | --- |
| content % | 5-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

| | |
|---|---|
| Ethyl acetate | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119475103-46-XXXX |
| Index | 607-022-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 205-500-4 |
| CAS | 141-78-6 |
| content % | 5-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| | |
|---|---|
| Butanone | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119457290-43-XXXX |
| Index | 606-002-00-3 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 201-159-0 |
| CAS | 78-93-3 |
| content % | 5-<10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| | |
|---|---|
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | |
| Registration number (REACH) | 01-2119473851-33-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 920-750-0 |
| CAS | --- |
| content % | 3-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

| | |
|---|--|
| Cyclohexane | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119463273-41-XXXX |
| Index | 601-017-00-1 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-806-2 |
| CAS | 110-82-7 |
| content % | 2,5-<5 |

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| | |
|---|---|
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) |
| Hydrocarbons, C9, aromatics | |
| Registration number (REACH) | 01-2119455851-35-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 918-668-5 |
| CAS | (64742-95-6) |
| content % | 1-<3 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.
 For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
 The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.
 The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.
 If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
 Keep Data Sheet available.

Ingestion

Typically no exposure pathway.
 Call doctor immediately - have Data Sheet available.
 Do not induce vomiting.
 Danger of aspiration.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the respiratory tract
 Coughing
 Headaches
 Dizziness
 Effect on the central nervous system
 Unconsciousness

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Large fire:

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Fume

Metal oxides

Silicon dioxide

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Do not wash away with water or watery cleaning agents.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

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In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
 Keep away from sources of ignition - Do not smoke.
 Take precautions against electrostatic charges.
 Do not use on hot surfaces.
 Avoid long lasting or intensive contact with skin.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Observe directions on label and instructions for use.
 Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Do not store with oxidizing agents.
 Observe special regulations for aerosols!
 Keep protected from direct sunlight and temperatures over 50°C.
 Store in a well ventilated place.
 Store cool.
 Observe special storage conditions.

7.3 Specific end use(s)

No information available at present.
 Observe the instructions for good working practice and the recommendations for risk assessment.
 Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
 600 mg/m³

| Chemical Name | Dimethyl ether | | |
|--|---|-----|--|
| WEL-TWA: 400 ppm (766 mg/m ³) (WEL-TWA), 1000 ppm (1920 mg/m ³) (EU) | WEL-STEL: 500 ppm (958 mg/m ³) (WEL-STEL) | --- | |
| Monitoring procedures: | - Compur - KITA-123 S (549 129) | | |
| BMGV: --- | Other information: --- | | |

| Chemical Name | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | |
|--------------------------------|---|-----|--|
| WEL-TWA: 600 mg/m ³ | WEL-STEL: --- | --- | |
| Monitoring procedures: | - Compur - KITA-187 S (551 174) | | |
| BMGV: --- | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) | | |

| Chemical Name | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | |
|--------------------------------|--|-----|--|
| WEL-TWA: 800 mg/m ³ | WEL-STEL: --- | --- | |
| Monitoring procedures: | - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) - Compur - KITA-187 S (551 174) | | |
| BMGV: --- | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) | | |

| Chemical Name | Ethyl acetate | | |
|---|--|-----|--|
| WEL-TWA: 200 ppm (734 mg/m ³) (WEL-TWA, EU) | WEL-STEL: 400 ppm (1468 mg/m ³) (WEL-STEL, EU) | --- | |
| Monitoring procedures: | - Draeger - Ethyl Acetate 200/a (CH 20 201) | | |

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- Compur - KITA-111 SA (549 160)
- Compur - KITA-111 U(C) (549 178)
- DFG Meth. Nr. 1 (D) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002
- DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002
- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002
- NIOSH 1457 (ETHYL ACETATE) - 1994
- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996

BMGV: ---

Other information: ---

Chemical Name Butanone

WEL-TWA: 200 ppm (600 mg/m³) (WEL-TWA, EU) WEL-STEL: 300 ppm (899 mg/m³) (WEL-STEL), 300 ppm (900 mg/m³) (EU) ---

- Monitoring procedures:
- Compur - KITA-122 SA(C) (549 277)
 - Compur - KITA-139 SB (549 731)
 - Compur - KITA-139 U (549 749)
 - DFG Meth.-Nr. 4 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015, 2002
 - INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105-1 (2004)
 - MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993
 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996
 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
 - NIOSH 2555 (KETONES I) - 2003
 - NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000

BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV)

Other information: Sk

Chemical Name Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

WEL-TWA: 1200 mg/m³ WEL-STEL: --- ---

- Monitoring procedures:
- Draeger - Hydrocarbons 0,1%/c (81 03 571)
 - Draeger - Hydrocarbons 2/a (81 03 581)
 - Compur - KITA-187 S (551 174)

BMGV: ---

Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)

Chemical Name Cyclohexane

WEL-TWA: 350 mg/m³ (100 ppm) (WEL-TWA), 700 mg/m³ (200 ppm) (EU) WEL-STEL: 1050 mg/m³ (300 ppm) ---

- Monitoring procedures:
- Draeger - Cyclohexane 40/a (81 03 671)
 - Compur - KITA-115 S (551 133)
 - NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003
 - OSHA 1022 (Cyclohexane) - 2018

BMGV: ---

Other information: ---

Chemical Name Hydrocarbons, C9, aromatics

WEL-TWA: 500 mg/m³ (Aromatics) WEL-STEL: --- ---

- Monitoring procedures:
- Draeger - Hydrocarbons 0,1%/c (81 03 571)
 - Draeger - Hydrocarbons 2/a (81 03 581)
 - Compur - KITA-187 S (551 174)

BMGV: ---

Other information: ---

Chemical Name Talc

WEL-TWA: 1 mg/m³ (res. dust) WEL-STEL: --- ---

Monitoring procedures: ---

BMGV: ---

Other information: ---

Dimethyl ether

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| | Environment - freshwater | | PNEC | 0,155 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,681 | mg/kg | |
| | Environment - soil | | PNEC | 0,045 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 160 | mg/l | |
| | Environment - marine | | PNEC | 0,016 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,549 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,069 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 471 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1894 | mg/m ³ | |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | | | | | |
|---|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 699 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 608 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 699 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 773 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 300 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2035 | mg/m ³ | |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | | | | | |
|--|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 149 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 447 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 149 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 300 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2085 | mg/m ³ | |

| Ethyl acetate | | | | | | |
|---------------------|--|------------------|------------|-------|------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,24 | mg/l | |
| | Environment - marine | | PNEC | 0,024 | mg/l | |

| | | | | | | |
|---------------------|--|------------------------------|------|-------|-------|--|
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,65 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1,15 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,115 | mg/kg | |
| | Environment - soil | | PNEC | 0,148 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 650 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 200 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4,5 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 37 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 367 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 367 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 734 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 63 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 1468 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1468 | mg/m3 | |

| Butanone | | | | | | |
|---------------------|---|------------------|------------|--------|--------------|----------------------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 55,8 | mg/l | |
| | Environment - marine | | PNEC | 55,8 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 284,74 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 284,7 | mg/kg dw | |
| | Environment - soil | | PNEC | 22,5 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 709 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 55,8 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 1000 | mg/kg | |
| Consumer | Human - dermal | Long term | DNEL | 412 | mg/kg bw/day | Overall assesment factor 2 |
| Consumer | Human - inhalation | Long term | DNEL | 106 | mg/m3 | Overall assesment factor 2 |
| Consumer | Human - oral | Long term | DNEL | 31 | mg/kg bw/day | Overall assesment factor 2 |
| Workers / employees | Human - dermal | Long term | DNEL | 1161 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term | DNEL | 600 | mg/m3 | |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | |
|---|--|-----------------------------|------------|-------|-----------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 608 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 699 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 699 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2035 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 773 | mg/kg bw/day | |

| Cyclohexane | | | | | | |
|---------------------|--|------------------------------|------------|-------|-----------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 44,7 | µg/l | |
| | Environment - marine | | PNEC | 4,47 | µg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,9 | µg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,6 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,694 | mg/kg dry weight | |
| | Environment - sewage treatment plant | | PNEC | 3,24 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,36 | mg/kg | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 412 | mg/m ³ | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 412 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 1186 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 206 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 59,4 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 206 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 700 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 700 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 700 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 2016 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 700 | mg/m ³ | |

| Hydrocarbons, C9, aromatics | | | | | | |
|-----------------------------|--|--|--|--|--|--|
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| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 32 | mg/m ³ | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 11 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 11 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 25 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 150 | mg/m ³ | |

(GB) - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). |
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
 Applies only if maximum permissible exposure values are listed here.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
 These are specified by e.g. EN 14042.
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
 Solvent resistant protective gloves (EN ISO 374).
 Recommended
 Protective nitrile gloves (EN ISO 374).
 Minimum layer thickness in mm:
 0,3
 Permeation time (penetration time) in minutes:
 > 480

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Protective hand cream recommended.
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
 The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
 Normally not necessary.
 If OES or MEL is exceeded.
 Gas mask filter A (EN 14387), code colour brown
 At high concentrations:
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Thermal hazards:
 Not applicable

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 Selection of materials derived from glove manufacturer's indications.
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state: | Aerosol. Active substance: liquid. |
| Colour: | Black |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | -25 °C |
| Flammability: | Does not apply to aerosols. |
| Lower explosion limit: | 0,6 Vol-% |
| Upper explosion limit: | 18 Vol-% |
| Flash point: | <-20 °C (DIN 53213 (Pensky-Martens, closed cup)) |
| Auto-ignition temperature: | >200 °C |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | Mixture is non-soluble (in water)., Neutral |
| Kinematic viscosity: | <=20,5 mm ² /s (40°C) |
| Solubility: | Not miscible |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | 60 hPa (20°C) |
| Density and/or relative density: | 1,065 g/ml (Active substance) |
| Density and/or relative density: | 0,839 g/cm ³ (20°C, DIN 51757) |
| Relative vapour density: | Does not apply to aerosols. |
| Particle characteristics: | Does not apply to aerosols. |

9.2 Other information

Solvents content: 74,9 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

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10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

Dimethyl ether

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|---------|----------|---|-------------------|
| Acute toxicity, by inhalation: | LC50 | 164 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophila melanogaster) | Negative |
| Carcinogenicity: | NOAEC | 47000 | mg/m3 | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 5000 | ppm | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | |

| | | | | | | |
|---|-------|-------|-------|-----|-------------------------------------|---------------|
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC | 47106 | mg/kg | Rat | OECD 452 (Chronic Toxicity Studies) | Negative(2 a) |
| Aspiration hazard: | | | | | | No |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | | | | | |
|---|----------|------------|---------|------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5840 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2800-3100 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >20 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Mild irritant (Analogous conclusion) |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Analogous conclusion, Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Analogous conclusion, Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | May cause drowsiness or dizziness., STOT SE 3, H336 |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | | | | | |
|--|----------|-------|---------|------------|--|----------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5840 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | Analogous conclusion |
| Acute toxicity, by dermal route: | LD50 | >2920 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >23,3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |

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|-------------------------|-------|------|-----|-----|---|---|
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | NOAEL | 9000 | ppm | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | diarrhoea, headaches, dizziness, nausea and vomiting. |
| Symptoms: | | | | | | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., diarrhoea |

| Ethyl acetate | | | | | | |
|---|----------|--------|---------|------------------------|--|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4934 | mg/kg | Rabbit | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >20000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC0 | 29,3 | mg/l/4h | Rat | | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H336, May cause drowsiness or dizziness. |

| | | | | | | |
|---|-------|-------|------------|-----|---|---|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS)) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,002 | mg/kg | Rat | Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS)) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting., fatigue |

| Butanone | | | | | | |
|------------------------------------|----------|---------|---------|------------------------|---|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 2193 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Acute toxicity, by dermal route: | LD50 | 5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 34-34,5 | mg/l/4h | Rat | | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |

| | | | | | | |
|---|-------|------|----------|-----|--|--|
| Reproductive toxicity (Developmental toxicity): | NOAEC | 1002 | ppm | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H336, May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 5041 | ppm/6h/d | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours, Negative |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., mental confusion, fatigue |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | |
|---|----------|-------|---------|-------------|--|--------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2800 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >23,3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Human being | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Reproductive toxicity: | NOAEL | 9000 | ppm | | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEC | 5,8 | mg/l | | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | |
| Aspiration hazard: | | | | | | Yes |

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|-----------|--|--|--|--|--|--|
| Symptoms: | | | | | | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
|-----------|--|--|--|--|--|--|

| Cyclohexane | | | | | | |
|---|----------|-------|---------|------------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 14 | mg/l/4h | Rat | | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Mild irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | LOAEL | 0,09 | mg/l | | | May cause drowsiness or dizziness. |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | lack of appetite, abdominal pain, drowsiness, unconsciousness, coughing, collapse, headaches, cramps, gastrointestinal disturbances, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Hydrocarbons, C9, aromatics | | | | | | |
|----------------------------------|----------|--------|---------|----------|--------------------------------------|----------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 3492 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3160 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5,693 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >6,193 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |

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|---|--|--|--|------------------------|---|---|
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative, Analogous conclusion |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Reproductive toxicity: | | | | | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H335, STOT SE 3, H336 |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 452 (Chronic Toxicity Studies) | Negative |
| Aspiration hazard: | | | | | | Yes |

| | | | | | | | |
|--|-----|--|---|---|--|--|---|
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. |
| Other information: | | | | | | | DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a. |
| Other information: | AOX | | 0 | % | | | According to the recipe, contains no AOX. |

| Dimethyl ether | | | | | | | |
|--|-----------|------|-------|-----------|---------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC0 | 96h | 2695 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 3082 | mg/l | Salmo gairdneri | | |
| 12.1. Toxicity to fish: | LC50 | 96h | >4,1 | mg/l | Poecilia reticulata | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >4,4 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 96h | 154,9 | mg/l | Chlorella vulgaris | | |
| 12.2. Persistence and degradability: | | 28d | 5 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -0,07 | | | | Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7) |
| 12.4. Mobility in soil: | H (Henry) | | 518,6 | Pa*m3/mol | | | No adsorption in soil. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | | >1600 | mg/l | Pseudomonas putida | | |
| Water solubility: | | | 45,60 | mg/l | | | 25°C |

| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | | | | | | |
|---|-----------|------|-------|------|---------------------|--|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | NOEC/NOEL | 28d | 2,045 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | NOELR | 28d | 2,04 | mg/l | Salmo gairdneri | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 11,4 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | LL50 | 96h | 11,4 | mg/l | Salmo gairdneri | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOELR | 48h | 2,1 | mg/l | Daphnia magna | | |

| | | | | | | | |
|--|-----------|-----|---------|------|---------------------------------|--|--|
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,17 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 30-100 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 81 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | Concentration in organisms possible. |
| 12.3. Bioaccumulative potential: | BCF | | 242-253 | | | | |
| 12.4. Mobility in soil: | | | | | | | Adsorption in ground., Product is slightly volatile. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Other information: | AOX | | 0 | % | | | |

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|---------|------|---------------------------------|--|-------------------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 13,4 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | LL50 | 96h | >13,4 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOELR | 28d | 1,53 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 1 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | EC50 | 72h | 10 - 30 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.1. Toxicity to algae: | NOELR | 72h | 10 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.1. Toxicity to algae: | ErL50 | 72h | 10-30 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOELR | 72h | 6,3 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | Possible |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Water solubility: | | | 2,6 | mg/l | | | 25°C |

| Ethyl acetate | | | | | | | |
|--|-----------|-------|---------|------------|---------------------------------|---|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | NOEC/NOEL | 32d | <9,65 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 230 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 48h | 333 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 610 | mg/l | Daphnia magna | DIN 38412 T.11 | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 2,4 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 165 | mg/l | | | Daphnia cucullata |
| 12.1. Toxicity to algae: | EC50 | 48h | 5600 | mg/l | Desmodesmus subspicatus | DIN 38412 T.9 | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 96h | 2000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | >2000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >100 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 48h | 3300 | mg/l | Scenedesmus subspicatus | | |
| 12.2. Persistence and degradability: | BOD | 20d | 79 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | 72h | 30 | | | | (Fish) |
| 12.3. Bioaccumulative potential: | Log Kow | | 0,68 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Bioaccumulation is unlikely (LogPow < 1).25 °C |
| 12.4. Mobility in soil: | H (Henry) | | 0,00012 | atm*m3/mol | | | |
| 12.4. Mobility in soil: | Koc | | 3 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.6. Endocrine disrupting properties: | | | | | | | Negative |
| Toxicity to bacteria: | EC10 | 18h | 2900 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |
| Toxicity to bacteria: | EC10 | 16h | 2900 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | EC50 | 15min | 5870 | mg/l | Photobacterium phosphoreum | | |

| Butanone | | | | | | | |
|-------------------------|----------|------|-------|------|---------------------|--------------------------------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 1690 | mg/l | Lepomis macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2973 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |

| | | | | | | | |
|--|-----------|-----|-----------|------|---------------------------------|--|---|
| 12.1. Toxicity to daphnia: | EC50 | 48h | 308 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 1972 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | 2029 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | activated sludge | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,29-0,3 | | | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | Bioaccumulation is unlikely (LogPow < 1). |
| 12.4. Mobility in soil: | H (Henry) | | 0,0000244 | | | | 25°C |
| 12.4. Mobility in soil: | Log Koc | | 3,8 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No vPvB substance, No PBT substance |
| Toxicity to bacteria: | EC50 | 16h | 1150 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |
| Other information: | DOC | | >70 | % | | | |
| Other information: | BOD/COD | | >50 | % | | | |

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|--------|------|---------------------------------|--|--|
| 12.1. Toxicity to fish: | LL50 | 96h | 3-10 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | 4,6-10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | LC50 | 72h | 10 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Analogous conclusion |
| 12.3. Bioaccumulative potential: | Log Pow | | 4-5,7 | | | | A notable biological accumulation potential has to be expected (LogPow > 3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance calculated value |
| Toxicity to bacteria: | EL50 | 48h | 11,14 | mg/l | | | |

Cyclohexane

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------|----------|------|-------|------|----------|-------------|-------|
|-------------------|----------|------|-------|------|----------|-------------|-------|

| | | | | | | | |
|--------------------------------------|---------|------|-------|------|----------------------------|--|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 4,53 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,9 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | LC50 | 72h | 9,317 | mg/l | Chlorella vulgaris | | |
| 12.2. Persistence and degradability: | | 28d | 77 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| 12.2. Persistence and degradability: | DOC | 28d | 9 | % | | | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 3,44 | | | | A notable biological accumulation potential has to be expected (LogPow > 3). |
| Toxicity to bacteria: | EC50 | 5min | 200 | mg/l | Photobacterium phosphoreum | | |

Hydrocarbons, C9, aromatics

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|-----------|------|---------------------------------|--|-------------------------------------|
| 12.1. Toxicity to fish: | LL50 | 96h | 9,2 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | 3,2 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | ErL50 | 72h | 2,9 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 54-56 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| 12.2. Persistence and degradability: | | 28d | 78 | % | activated sludge | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |
| 12.2. Persistence and degradability: | | 28d | 78 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| 12.3. Bioaccumulative potential: | Log Pow | | 3,7 - 4,5 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

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| | | | | | | | |
|-----------------------|------|-------|-----|------|------------------|--|--|
| Toxicity to bacteria: | EC50 | 10min | >99 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
|-----------------------|------|-------|-----|------|------------------|--|--|

| Talc | | | | | | | |
|--|----------|------|-------|------|-------------------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 100 | g/l | Brachydanio rerio | | |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Water solubility: | | | <0,1 | % | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:



Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging



SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

| | | |
|-----------------------------------|---------------------------|---|
| 14.1. UN number or ID number: | 1950 |  |
| 14.2. UN proper shipping name: | UN 1950 AEROSOLS |  |
| 14.3. Transport hazard class(es): | 2.1 | |
| 14.4. Packing group: | - | |
| 14.5. Environmental hazards: | environmentally hazardous | |
| Tunnel restriction code: | D | |
| Classification code: | 5F | |
| LQ: | 1 L | |
| Transport category: | 2 | |

Transport by sea (IMDG-code)

| | | |
|-----------------------------------|------------------|---|
| 14.1. UN number or ID number: | 1950 |  |
| 14.2. UN proper shipping name: | UN 1950 AEROSOLS |  |
| 14.3. Transport hazard class(es): | 2.1 | |

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14.4. Packing group: -
 14.5. Environmental hazards: environmentally hazardous
 Marine Pollutant: Yes
 EmS: F-D, S-U

Transport by air (IATA)

14.1. UN number or ID number: 1950
 14.2. UN proper shipping name: UN 1950 Aerosols, flammable
 14.3. Transport hazard class(es): 2.1
 14.4. Packing group: -
 14.5. Environmental hazards: environmentally hazardous



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 Danger code and packing code on request.
 Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
 Regulation (EC) No 1907/2006, Annex XVII
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
 Cyclohexane
 Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
 Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| E2 | | 200 | 500 |
| P3a | 11.1 | 150 (netto) | 500 (netto) |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 75,85 %

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 8, 14
 Employee training in handling dangerous goods is required.
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

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Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|---|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| STOT SE 3, H336 | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411 | Classification according to calculation procedure. |
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- 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.
- H220 Extremely flammable gas.
- EUH066 Repeated exposure may cause skin dryness or cracking.

- Eye Irrit. — Eye irritation
- Skin Irrit. — Skin irritation
- Asp. Tox. — Aspiration hazard
- STOT SE — Specific target organ toxicity - single exposure - narcotic effects
- Aquatic Chronic — Hazardous to the aquatic environment - chronic
- Aerosol — Aerosols
- Flam. Gas — Flammable gases - Flammable gas
- Flam. Liq. — Flammable liquid
- Aquatic Acute — Hazardous to the aquatic environment - acute
- STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Key literature references and sources for data:

- Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
- Guidelines for the preparation of safety data sheets as amended (ECHA).
- Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
- Safety data sheets for the constituent substances.
- ECHA Homepage - Information about chemicals.
- GESTIS Substance Database (Germany).
- German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
- EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
- National Lists of Occupational Exposure Limits for each country as amended.
- Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

- acc., acc. to according, according to
- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

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AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ASTM ASTM International (American Society for Testing and Materials)
 ATE Acute Toxicity Estimate
 BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
 BCF Bioconcentration factor
 BSEF The International Bromine Council
 CAS Chemical Abstracts Service
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EbCx, EyCx, Eblx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)
 EC European Community
 ECHA European Chemicals Agency
 ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ErCx, EμCx, Erlx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
 etc. et cetera
 EU European Union
 EVAL Ethylene-vinyl alcohol copolymer
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 Koc Adsorption coefficient of organic carbon in the soil
 Kow octanol-water partition coefficient
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC (Code) International Bulk Chemical (Code)
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 IUPAC International Union for Pure Applied Chemistry
 LC50 Lethal Concentration to 50 % of a test population
 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
 Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
 Log Kow, Log Pow Logarithm of octanol-water partition coefficient
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 mg/kg bw mg/kg body weight
 mg/kg bw/d, mg/kg bw/day mg/kg body weight/day
 mg/kg dw mg/kg dry weight
 mg/kg wwt mg/kg wet weight
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute for Occupational Safety and Health (USA)
 NLP No-longer-Polymer
 NOEC, NOEL No Observed Effect Concentration/Level
 OECD Organisation for Economic Co-operation and Development
 org. organic
 OSHA Occupational Safety and Health Administration (USA)

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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Steinschlagschutz schwarz

Stoneguard, black

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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