

Page 1 of 29 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 04.02.2021 / 0020 Replacing version dated / version: 30.04.2020 / 0019 Valid from: 04.02.2021 PDF print date: 26.02.2021 LM 203 MoS2-Gleitlack

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

LM 203 MoS2-Gleitlack

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

Sector of use [SU]:

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SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 9a - Coastings and paints, thinners, paint removers

PC14 - Metal surface treatment products

PC15 - Non-metal-surface treatment products

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required. Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC 8c - Widespread use leading to inclusion into/onto article (indoor)

ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC 8f - Widespread use leading to inclusion into/onto article (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR)



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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. |
|-----------------|---|---|
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| STOT SE | 3 | H336-May cause drowsiness or dizziness. |
| Aquatic Chronic | 3 | H412-Harmful to aquatic life with long lasting effects. |
| Aerosol | 1 | H222-Extremely flammable aerosol. |
| Aerosol | 1 | H229-Pressurised container: May burst if heated. |

2.2 Label elements

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



H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H412-Harmful 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 vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear eye 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.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substances^{n.a.}3.2 Mixtures



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| Pentane | Substance for which an EU exposure limit value applies. |
|---|--|
| Registration number (REACH) | 01-2119459286-30-XXXX |
| Index | 601-006-00-1 |
| EINECS, ELINCS, NLP | 203-692-4 |
| CAS | 109-66-0 |
| content % | 15-<25 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |
| | STOT SE 3, H336 |
| | Aquatic Chronic 2, H411 |
| | Flam. Liq. 1, H224 |
| | |
| Ethanol | Substance with specific conc. limit(s) acc. to REACh- |
| | registration |
| Registration number (REACH) | 01-2119457610-43-XXXX |
| Index | 603-002-00-5 |
| EINECS, ELINCS, NLP | 200-578-6 |
| CAS | 64-17-5 |
| content % | 10-20 |
| | |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| Putonono | Substance for which on Ell experime limit value our line |
| Butanone Registration number (REACH) | Substance for which an EU exposure limit value applies. |
| | |
| Index EINECS, ELINCS, NLP | 606-002-00-3 |
| | 201-159-0 |
| CAS | 78-93-3 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |
| P. d. L.d. | |
| Dimethyl ether | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119472128-37-XXXX |
| Index | 603-019-00-8 |
| EINECS, ELINCS, NLP | 204-065-8 |
| CAS | 115-10-6 |
| content % | 10-20 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Gas 1A, H220 |
| • | |
| Acetone | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119471330-49-XXXX |
| Index | 606-001-00-8 |
| EINECS, ELINCS, NLP | 200-662-2 |
| CAS | 67-64-1 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |
| | |
| Mathemal | Substance for which an EU exposure limit value applies. |
| Methanol | |
| Registration number (REACH) | 01-2119433307-44-XXXX |
| Registration number (REACH) Index | 603-001-00-X |
| Registration number (REACH) | 603-001-00-X 200-659-6 |
| Registration number (REACH) Index | 603-001-00-X |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS | 603-001-00-X 200-659-6 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS content % | 603-001-00-X 200-659-6 67-56-1 0,1-<1 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS | 603-001-00-X 200-659-6 67-56-1 0,1-<1 Flam. Liq. 2, H225 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS content % | 603-001-00-X 200-659-6 67-56-1 0,1-<1 Flam. Liq. 2, H225 Acute Tox. 3, H331 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS content % | 603-001-00-X 200-659-6 67-56-1 0,1-<1 Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS content % | 603-001-00-X 200-659-6 67-56-1 0,1-<1 Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 |
| Registration number (REACH) Index EINECS, ELINCS, NLP CAS content % | 603-001-00-X 200-659-6 67-56-1 0,1-<1 Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 |



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| Registration number (REACH) | 01-2119490790-32-XXXX |
|---|-----------------------|
| Index | 005-011-00-4 |
| EINECS, ELINCS, NLP | 215-540-4 |
| CAS | 1330-43-4 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Repr. 1B, H360FD |
| | Eye Irrit. 2, H319 |

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.

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Typically no exposure pathway. Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Irritation of the eyes Prevent drying out

Prevent drying out. Drying of the skin. Dermatitis (skin inflammation) Headaches Dizziness Mental confusion Coordination disorders Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder Unsuitable extinguishing media n.c. 5.2 Special bazards arising from

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:



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Oxides of carbon Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

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In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Full protection, if necessary. 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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

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, sand, diatomaceous earth) 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

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.

Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or 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.

 $\label{eq:keep} \mbox{Keep away from food, drink and animal feeding stuffs.}$

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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with flammable or self-igniting materials.

Observe special storage conditions.

Observe special regulations for aerosols!

Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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| Chemical Name | Pentane | Content %:15- <25 |
|--|--|----------------------|
| WEL-TWA: 1800 mg/m3 (600 ppm) mg/m3 (1000 ppm) (EU) | (WEL), 3000 WEL-STEL: | |
| Monitoring procedures: | Draeger - Pentane 100/a (67 24 701) Compur - KITA-113 SB(C) (549 368) DFG (D) (Loesungsmittelgemische Meth. Nr. 1), DFG (E) (Se 2002 NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREE) | |
| BMGV: | Other information: | |
| Chemical Name | Ethanol | Content %:10-20 |
| WEL-TWA: 1000 ppm (1920 mg/m; | 3) WEL-STEL: | |
| Monitoring procedures: | Draeger - Alcohol 25/a Ethanol (81 01 631) Compur - KITA-104 SA (549 210) DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (20 DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU BC/CEN/ENTR/000/2002-16 card 63-2 (2004) DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU BC/CEN/ENTR/000/2002-16 card 63-2 (2004) | 004) project |
| BMGV: | Other information: | |

| Chemical Name | Butanone | | | Content %:10- <20 |
|---|--|--|---|---|
| WEL-TWA: 200 ppm (600 mg/m3) | (WEL, EU) | WEL-STEL: 300 ppm (899 mg/m3) (WEL), 300 ppm (900 mg/m3) (EU) | | |
| Monitoring procedures: BMGV: 70 μmol butan-2-one/l in u | | Compur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) 2002 INSHT MTA/MA-031/A96 (Determination of ketones (aceton methyl isobutyl ketone) in air - Charcoal tube method / Gas of EU project BC/CEN/ENTR/000/2002-16 card 105-1 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory m sorbent tubes, thermal desorption and gas chromatography) NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREEN NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXT SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 GV) | ne, methyl chromato nethod us - 1993 ENING)) - FRACTIV | ethyl ketone, graphy) - 1996 - ing pumped solid 1996 |
| | · · · · | | | Content %:10-20 |
| Chemical Name WEL-TWA: 400 ppm (766 mg/m3) (1920 mg/m3) (EU) | Dimethyl ether (WEL), 1000 ppm | WEL-STEL: 500 ppm (958 mg/m3) (WEL) | | Content %.10-20 |
| Monitoring procedures: | - | Compur - KITA-123 S (549 129) | | |
| BMGV: | | Other information: | | |
| Chemical Name | Acetone | | | Content %:1-5 |
| WEL-TWA: 500 ppm (1210 mg/m3 Monitoring procedures: |) (WEL, EU) - - - - - - - | WEL-STEL: 1500 ppm (3620 mg/m3) (WEL) Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) Compur - KITA-102 SC (548 550) Compur - KITA-102 SD (551 109) | | |



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| | | | |
| | INSHT MTA/MA-031/A96 (Determination of ketones (ace | tone, methy | yl ethyl ketone, |
| | methyl isobutyl ketone) in air - Charcoal tube method / G | | |
| - | EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004 | | |
| | MDHS 72 (Volatile organic compounds in air – Laborator | | sing pumped solid |
| - | sorbent tubes, thermal desorption and gas chromatograp | ohy) - 1993 | |
| - | NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI | | - 1996 |
| - | NIOSH 2555 (KETONES I) - 2003 | (CELINING)) | - 1990 |
| | NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I | EXTRACTI | VE FTIR |
| - | SPECTROMÈTRY) - 2016 | | |
| - | OSHA 69 (Acetone) - 1988 | | |
| BMGV: | Other information: | | |
| Chemical Name Methanol | | | Content %:0,1-< |
| WEL-TWA: 200 ppm (266 mg/m3) (WEL), 200 ppm | n WEL-STEL: 250 ppm (333 mg/m3 (WEL) | | |
| (260 mg/m3) (EU) | | | |
| Monitoring procedures: - | Draeger - Alcohol 25/a Methanol (81 01 631) | | |
| - | Compur - KITA-119 SA (549 640) Compur - KITA-119 U (549 657) | | |
| - | DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 6), DFG (| E) (Solvent | mixtures 6) - 2013 |
| - | 2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 | | 111/2010 |
| | | | |
| - | | ` | |
| - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI | REENING)) | - 1996 |
| - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I | | |
| - - - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 | | |
| - - - BMGV/: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) | EXTRACTÍ | VE FTIR |
| - - - BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: | | ve ftir Eu) |
| Chemical Name Disodium tetra | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous | EXTRACTÍN Sk (WEL, E | VE FTIR |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: | EXTRACTÍ | ve ftir Eu) |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: | EXTRACTÍN | ve ftir Eu) |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous | EXTRACTÍN Sk (WEL, E | VE FTIR EU) Content %:0,1-< |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: Other information: | EXTRACTÍN Sk (WEL, E | ve ftir Eu) |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) | EXTRACTÍN | VE FTIR EU) Content %:0,1-< |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) | EXTRACTÍN Sk (WEL, E | VE FTIR EU) Content %:0,1-< |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 | EXTRACTÍN Sk (WEL, E | VE FTIR EU) Content %:0,1-< |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: BMGV: 600 ppm (1450 mg/m3) Monitoring procedures: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous Other information: Other information: Other information: Other information: Other information: Other information: Other information: Other information: Other information: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: BMGV: - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous Other information: Other information: Other information: Other information: Other information: Other information: Other information: Other information: Other information: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: BMGV: - | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous Other information: borate, anhydrous Other information: Other in | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: Chemical Name Propane WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: BMGV: BMGV: BMGV: BMGV: BMGV: BMGV: BMGV: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: BMGV: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: BMGV: BMGV: BMGV: BMGV: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: BMGV: BMGV: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: BMGV: <t< td=""><td>NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo)</td><td>EXTRACTÍN</td><td>VE FTIR EU) Content %:0,1-< Content %:</td></t<> | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo) | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo) | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| B Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: B Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: 10 mg/m3 (molybdenum insoluble compounds, as Mo) Monitoring procedures: BMGV: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo) | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: BMGV: Chemical Name Propane WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: BMGV: Chemical Name Molybdenum d WEL-TWA: 100 ppm (ACGIH) Monitoring procedures: - BMGV: BMGV: BMGV: BMGV: BMGV: 10 mg/m3 (molybdenum insoluble compounds, as Mo) Monitoring procedures: BMGV: BMGV: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: Isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo) | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: |
| Chemical Name Disodium tetra WEL-TWA: 1 mg/m3 Monitoring procedures: BMGV: BMGV: Chemical Name Butane WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures: - BMGV: Chemical Name Propane WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures: - BMGV: BMGV: Chemical Name Molybdenum d WEL-TWA: 100 mg/m3 (molybdenum insoluble compounds, as Mo) Monitoring procedures: BMGV: BMGV: | NIOSH 2000 (METHANOL) - 1998 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCI NIOSH 3800 (ORGANIC AND INORGANIC GASES BY I SPECTROMETRY) - 2016 Draeger - Alcohol 100/a (CH 29 701) Other information: borate, anhydrous WEL-STEL: WEL-STEL: 750 ppm (1810 mg/m3) Compur - KITA-221 SA (549 459) OSHA PV2010 (n-Butane) - 1993 Other information: WEL-STEL: Compur - KITA-125 SA (549 954) OSHA PV2077 (Propane) - 1990 Other information: isulphide WEL-STEL: 20 mg/m3 (molybdenum insoluble compounds, as Mo) WEL-STEL: | EXTRACTÍN | VE FTIR EU) Content %:0,1-< Content %: Content %: |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------|------------|-------|-------|------|
| | Environment - water | | PNEC | 0,23 | mg/l | |
| | Environment - sediment | | PNEC | 1,2 | mg/kg | |
| | Environment - soil | | PNEC | 0,55 | mg/kg | |
| | Environment - sewage treatment plant | | DNEL | 3,6 | mg/l | |



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| | Environment - periodic release | | PNEC | 0,88 | mg/l | |
|---------------------|--------------------------------|--------------------------------|------|------|-----------------|--|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 214 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 643 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 214 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 432 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 3000 | mg/m3 | |

| Ethanol | | | | | | |
|---------------------|--|-----------------------------|------------|-------|---------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,96 | mg/l | |
| | Environment - marine | | PNEC | 0,79 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,75 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 580 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,6 | mg/kg | |
| | Environment - soil | | PNEC | 0,63 | mg/kg dry weight | |
| | Environment - oral (animal feed) | | PNEC | 0,38 | g/kg feed | |
| | Environment - sediment, marine | | PNEC | 2,9 | mg/kg dry weight | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 950 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 114 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 87 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 206 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 343 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1900 | mg/m3 | |

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|-----------------------------------|------------------|------------|--------|----------|------|
| •• | Environmental | | • | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 55,8 | mg/l | |
| | Environment - marine | | PNEC | 55,8 | mg/l | |
| | Environment - sediment, | | PNEC | 284,74 | mg/kg dw | |
| | freshwater | | DNEO | 0047 | | |
| | Environment - sediment, marine | | PNEC | 284,7 | mg/kg dw | |
| | Environment - soil | | PNEC | 22,5 | mg/kg dw | |
| | Environment - sewage | | PNEC | 709 | mg/l | |
| | treatment plant | | | | | |



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| | 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 | |

| 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/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1894 | mg/m3 | |

| Acetone | | | | | | |
|---------------------|--|--------------------------------|------------|-------|-----------------|---------------------------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - marine | | PNEC | 1,06 | mg/l | Assesment factor 500 |
| | Environment - freshwater | | PNEC | 10,6 | mg/l | Assesment factor 50 |
| | Environment - sediment, freshwater | | PNEC | 30,4 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 3,04 | mg/kg dw | |
| | Environment - soil | | PNEC | 29,5 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 19,5 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 21 | mg/l | Assesmen factor 100 |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assesmen factor 2 |



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| Consumer | Human - dermal | Long term, systemic | DNEL | 62 | mg/kg | Overall |
|---------------------|--------------------|---------------------|------|------|--------|------------------------|
| | | effects | | | bw/day | assesment factor 20 |
| Consumer | Human - inhalation | Long term, systemic | DNEL | 200 | mg/m3 | Overall |
| | | effects | | | | assesment |
| | | | | | | factor 5 |
| Workers / employees | Human - dermal | Long term, systemic | DNEL | 186 | mg/kg | |
| | | effects | | | bw/day | |
| Workers / employees | Human - inhalation | Short term, local | DNEL | 2420 | mg/m3 | |
| | | effects | | | | |
| Workers / employees | Human - inhalation | Long term, systemic | DNEL | 1210 | mg/m3 | |
| | | effects | | | | |

| Methanol Area of application | Exposure route / Environmental | Effect on health | Descriptor | Value | Unit | Note |
|---------------------------------|--|---------------------------------|------------|-------|-----------------------------|------|
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 154 | mg/l | |
| | Environment - marine | | PNEC | 15,4 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 570,4 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 57,04 | mg/kg | |
| | Environment - soil | | PNEC | 23,5 | mg/kg | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1540 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 50 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 50 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 8 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 50 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 8 | mg/kg body weight/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 8 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 50 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 8 | mg/kg body weight/day | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 40 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 260 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 260 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 40 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 260 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 260 | mg/m3 | |



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Disodium tetraborate, anhydrous

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|------------------------------|------------|-------|-------|------|
| | Environment - freshwater | | PNEC | 2,9 | mg/l | |
| | Environment - marine | | PNEC | 2,9 | mg/l | |
| | Environment - soil | | PNEC | 5,7 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 3,4 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 159,5 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,79 | mg/kg | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 0,79 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 6,7 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 316,4 | mg/kg | |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 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 (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/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. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

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: Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,4

Permeation time (penetration time) in minutes: > 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.



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The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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. Filter A P2 (EN 14387), code colour brown, white At high concentrations: Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138) Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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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 |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| Flash point: | n.a. |
| Evaporation rate: | n.a. |
| Flammability (solid, gas): | n.a. |
| Lower explosive limit: | 1,4 Vol-% |
| Upper explosive limit: | 18,6 Vol-% |
| Vapour pressure: | 4000 hPa (20°C) |
| Vapour density (air = 1): | Not determined |
| Density: | 0,61 g/ml (20°C) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 235 °C (Ignition temperature) |
| Auto-ignition temperature: | No |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Product is not explosive. When using: development of explosive |
| | vapour/air mixture possible. |
| Oxidising properties: | No |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| | |



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Solvents content:

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86,5 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

No dangerous reactions are known. 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

See also section 7. Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| LM 203 MoS2-Gleitlack | 1 | | | | | |
|--|----------|-------|---------|----------|-------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by inhalation: | LC50 | >20 | mg/l/4h | | | calculated value, Vapours |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l/4h | | | calculated value, Aerosol |
| 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. |
| Other information: | | | | | | Classification according to calculation procedure. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|---------|----------|------------------------|---------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 423 (Acute Oral | |
| | | | | | Toxicity - Acute Toxic | |
| | | | | | Class Method) | |
| Acute toxicity, by inhalation: | LC50 | >5 | mg/l/4h | Rat | OECD 403 (Acute | Aerosol |
| | | | | | Inhalation Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >25,3 | mg/l/4h | Rat | OECD 403 (Acute | Vapours |
| | | | | | Inhalation Toxicity) | |



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| Skin corrosion/irritation: | OECD 404 (Acute | Not irritant, |
|---|---------------------------|-------------------------------|
| | Dermal | Repeated |
| | Irritation/Corrosion) | exposure may |
| | | cause skin |
| | | dryness or |
| | | cracking. |
| Serious eye damage/irritation: | OECD 405 (Acute Eye | Mild irritant |
| | Irritation/Corrosion) | |
| Respiratory or skin | OECD 406 (Skin | No (inhalation |
| sensitisation: | Sensitisation) | and skin contact |
| Germ cell mutagenicity: | OECD 471 (Bacterial | Negative |
| | Reverse Mutation Test) | 5 |
| Carcinogenicity: | | Negative |
| Reproductive toxicity: | OECD 416 (Two- | Negative, |
| | generation | Analogous |
| | Reproduction Toxicity | conclusion |
| | Study) | |
| Specific target organ toxicity - | | May cause |
| single exposure (STOT-SE): | | drowsiness or |
| | | dizziness. |
| Specific target organ toxicity - | OECD 413 (Subchronic | Negative |
| repeated exposure (STOT-RE): | Inhalation Toxicity - 90- | - 3 |
| , | Day Study) | |
| Aspiration hazard: | | Yes |
| Symptoms: | | drying of the |
| | | skin., respiratory |
| | | distress. |
| | | coughing, fever, |
| | | drowsiness, |
| | | dizziness. |
| | | nausea, |
| | | headaches, |
| | | unconsciousnes |
| | | |
| | | , burning of the membranes of |
| | | |
| | | the nose and |
| | | throat |
| Specific target organ toxicity - | | Not irritant |
| single exposure (STOT-SE), | | (respiratory tract |
| inhalative: | | |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|-------------|------------------------|-------------------|
| Acute toxicity, by oral route: | LD50 | 10470 | 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 | 124,7 | mg/l/4h | Rat | OECD 403 (Acute | Vapours |
| | | | | | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosion) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Irritant |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | No (skin contact) |
| sensitisation: | | | | | Sensitisation - Local | |
| | | | | | Lymph Node Assay) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro | Negative |
| | | | | | Mammalian Cell Gene | |
| | | | | | Mutation Test) | |



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|---|----|-------------|--|---|
| Germ cell mutagenicity: | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Aspiration hazard: | | Human being | | No indications of such an effect. |
| Symptoms: | | | | respiratory distress, drowsiness, unconsciousness, , drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |
| Other information: | | | | Excessive alcohol consumption during pregnancy induces the foetus alcohol syndrome (reduced weight at birth, physical and mental disorders)., There is no sign that this syndrome is also caused by dermal or inhalative absorption., Experiences on |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|------------------------|----------------|
| Acute toxicity, by oral route: | LD50 | >2000 | 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 | 34,5 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Mild irritant, |
| | | | | | Dermal | Repeated |
| | | | | | Irritation/Corrosion) | exposure may |
| | | | | | | cause skin |
| | | | | | | dryness or |
| | | | | | | cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Eye Irrit. 2 |
| | | | | | Irritation/Corrosion) | |

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|--|---------------|--------|----------|---------------------------|---|---|
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizising |
| 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 |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, , drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., mental confusion, fatigue |
| 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 |

- (GB)-

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|---------|----------|--|------------------|
| Acute toxicity, by inhalation: | LC50 | 164 | mg/l/4h | Rat | | |
| 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 Drosophilia 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 |



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| Symptoms: | | unconsciousness |
|-----------|--|------------------|
| | | , headaches, |
| | | mucous |
| | | membrane |
| | | irritation, |
| | | dizziness, |
| | | nausea and |
| | | vomiting., |
| | | frostbite, |
| | | gastrointestinal |
| | | disturbances, |
| | | respiratory |
| | | distress, |
| | | circulatory |
| | | collapse |

| Acetone Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|---------------|---------------------------|---|---|
| Acute toxicity, by oral route: | LD50 | 5800 | mg/kg | Rat | OECD 401 (Acute Oral | INDIES |
| | LD50 | 5600 | | Rai | Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >15800 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 76 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Guinea pig | | Repeated exposure may cause skin dryness or cracking., Not irritant |
| 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 sensitizising |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| 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 |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Symptoms: | | | | | | unconsciousnes , vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| Methanol | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | ATE | 300 | mg/kg | Human being | | Experiences on persons. |



| Acute toxicity, by dermal route: | LD50 | 17100 | mg/kg | Rabbit | | Does not |
|----------------------------------|------|-------|---------|-------------|--------------------------|-------------------|
| | | | | | | conform with EU |
| | | | | | | classification. |
| Acute toxicity, by inhalation: | LC50 | 85 | mg/l/4h | Rat | | Not relevant for |
| | | | | | | classification., |
| | | | | | | Vapours |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Not irritant |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact) |
| sensitisation: | | | | | Sensitisation) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian | Negative |
| | | | | | Erythrocyte | |
| | | | | | Micronucleus Test) | |
| Carcinogenicity: | | | | Mouse | OECD 453 (Combined | Negative |
| | | | | | Chronic | |
| | | | | | Toxicity/Carcinogenicity | |
| - | | | | | Studies) | |
| Symptoms: | | | | | | abdominal pain, |
| | | | | | | vomiting, |
| | | | | | | headaches, |
| | | | | | | gastrointestinal |
| | | | | | | disturbances, |
| | | | | | | drowsiness, |
| | | | | | | visual |
| | | | | | | disturbances, |
| | | | | | | watering eyes, |
| | | | | | | nausea, mental |
| | | | | | | confusion |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---------------------------------------|----------|-------|-------|------------|---|-------------------|
| Acute toxicity, by oral route: | LD50 | 2500 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| 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 sensitizising |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | | OECD 451 (Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 155 | mg/kg | Rat | | |



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| Symptoms: | | | | | breathing difficulties, abdominal pain, annoyance, discoloration of the skin, heart/circulatory disorders, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 155 | mg/kg bw/d | Rat | |
| Butane | | | | | |

| Dulane | | | 1 | | | 1 |
|--------------------------------|----------|-------|---------|-------------|------------------------|-------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | ataxia, breathing |
| | | | | | | difficulties, |
| | | | | | | drowsiness, |
| | | | | | | unconsciousness |
| | | | | | | , frostbite, |
| | | | | | | disturbed heart |
| | | | | | | rhythm, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | intoxication, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|--------|---------|-------------|------------------------|--------------|
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | - |
| Reproductive toxicity | NOAEC | 21,641 | mg/l | | OECD 422 (Combined | |
| (Developmental toxicity): | | | _ | | Repeated Dose Tox. | |
| | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Aspiration hazard: | | | | | — <i>i</i> | No |



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| Symptoms: | | breathing difficulties, unconsciousness , frostbite, |
|-----------|--|---|
| | | headaches, cramps, mucous membrane irritation, |
| | | dizziness, nausea and vomiting. |

| Molybdenum disulphide | Molybdenum disulphide | | | | | | | | |
|----------------------------------|-----------------------|-------|----------|------------|------------------------|-------------------|--|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | | |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | | | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | | | | |
| Acute toxicity, by inhalation: | LC50 | >2820 | mg/m3/4h | Rat | | | | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant | | | |
| Serious eye damage/irritation: | | | | Rabbit | | Mild irritant | | | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact) | | | |
| sensitisation: | | | | | Sensitisation) | | | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative | | | |
| | | | | | Reverse Mutation Test) | | | | |
| Symptoms: | | | | | | mucous | | | |
| | | | | | | membrane | | | |
| | | | | | | irritation | | | |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|---------|----------|------------------------|---|
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconsciousness , frostbite, headaches, cramps, dizziness, nausea and vomiting. |

SECTION 12: Ecological information

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

| LM 203 MoS2-Gleitlack | | | | | | | |
|----------------------------|----------|------|-------|------|----------|-------------|--------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to daphnia: | | | | | | | n.d.a. |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and | | | | | | | Not |
| degradability: | | | | | | | biodegradable |
| 12.3. Bioaccumulative | | | | | | | n.d.a. |
| potential: | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | Product is |
| | | | | | | | slightly volatile. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment | | | | | | | |
| 12.6. Other adverse | | | | | | | n.d.a. |
| effects: | | | | | | | |
| Other information: | | | | | | | According to the |
| | | | | | | | recipe, contains |
| | | | | | | | no AOX. |



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| Pentane | |
|---------|--|
|---------|--|

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|-------|------|--------------------|-------------|------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 4,26 | mg/l | Oncorhynchus | | |
| | | | | - | mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 2,7 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 10,7 | mg/l | Pseudokirchneriell | | |
| | | | | _ | a subcapitata | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 7,51 | mg/l | Pseudokirchneriell | | |
| | | | | _ | a subcapitata | | |
| 12.2. Persistence and | | 28d | 87 | % | | | |
| degradability: | | | | | | | |
| 12.2. Persistence and | | | | | | | Readily |
| degradability: | | | | | | | biodegradable, |
| | | | | | | | Photochemical |
| | | | | | | | decomposition ir |
| | | | | | | | the atmosphere. |
| 12.3. Bioaccumulative | Log Pow | | 3,39 | | | | |
| potential: | | | | | | | |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|-----------|------|---------------|------|------------------------|--|---|
| 12.1. Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 120h | 250 | mg/l | Brachydanio rerio | OECD 212 (Fish, Short- term Toxicity Test on Embryo and Sac- fry Stages) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 12340 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 10d | 9,6 | mg/l | Ceriodaphnia spec. | | References |
| 12.1. Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 97 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -0,32 | | | | Bioaccumulatior is unlikely (LogPow < 1). |
| 12.3. Bioaccumulative potential: | BCF | | 0,66 - 3,2 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00013 8 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |
| Other organisms: | NOEC/NOEL | | 280 | mg/l | Lemna gibba | OECD 201 (Alga, Growth Inhibition Test) | |



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| Butanone | | | | | 1 | | |
|----------------------------|-----------|------|---------|----------|--------------------|---------------------|-----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.5. Results of PBT | | | | | | | No vPvB |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | PBT substance |
| 12.1. Toxicity to fish: | LC50 | 96h | 1690 | mg/l | Lepomis | | |
| | | | | | macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2993 | mg/l | Pimephales | OECD 203 (Fish, | |
| | | | | | promelas | 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: | LC50 | 72h | 1972 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| | | | | | | Test) | |
| 12.2. Persistence and | | 28d | 98 | % | | OECD 301 D | Readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | Closed Bottle Test) | |
| 12.3. Bioaccumulative | Log Pow | | 0,29 | | | OECD 117 | Bioaccumulation |
| potential: | | | | | | (Partition | is unlikely |
| | | | | | | Coefficient (n- | (LogPow < 1). |
| | | | | | | octanol/water) - | |
| | | | | | | HPLC method) | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00002 | atm*m3/m | | | 25°C |
| | | | 44 | ol | | | |
| Other information: | DOC | | >70 | % | | | |
| Other information: | BOD/COD | | >50 | % | | | |

| 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 | | 28d | 5 | % | | OECD 301 D | Not readily |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | Closed Bottle Test) | |
| 12.3. Bioaccumulative | Log Pow | | -0,07 | | | | Bioaccumulation |
| potential: | | | | | | | is unlikely |
| | | | | | | | (LogPow < 1). |
| | | | | | | | 25°C (pH 7) |
| 12.4. Mobility in soil: | H (Henry) | | 518,6 | Pa*m3/m | | | No adsorption in |
| | | | | ol | | | soil. |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| Toxicity to bacteria: | EC10 | | >1600 | mg/l | Pseudomonas | | |
| | | | | | putida | | |
| Other information: | | | | | | | Does not contair |
| | | | | | | | any organically |
| | | | | | | | bound halogens |
| | | | | | | | which can |
| | | | | | | | contribute to the |
| | | | | | | | AOX value in |
| | | | | | | | waste water.DIN |
| | | | | | | | EN 1485 |
| Water solubility: | | | 45,60 | mg/l | | | 25°C |



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| Acetone | E I I I | | N/ * | 11.14 | | - | NI 4 |
|---|----------------|-------|----------------|-------|-------------------------------------|---|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and degradability: | | 30d | 81-92 | % | | Regulation (EC) 440/2008 C.4-E (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - CLOSED BOTTLE TEST) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -0,24 | | | OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method) | |
| 12.3. Bioaccumulative potential: | BCF | | 0,19 | | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 5540 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 7500 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 6100- 12700 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 28d | 2212 | mg/l | Daphnia pulex | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 8800 | mg/l | Daphnia pulex | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.2. Persistence and degradability: | | 28d | 91 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.1. Toxicity to algae: | EC50 | 48h | 4740 | mg/l | Pseudokirchneriell a subcapitata | / | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 48h | 3400 | mg/l | Pseudokirchneriell a subcapitata | | |
| Toxicity to bacteria: | BOD/COD | 16h | 1700 | mg/l | Pseudomonas putida | | |
| Toxicity to bacteria: | EC10 | 30min | 1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | BOD5 | | 1760- 1900 | mg/g | | | |
| Other information: | AOX | | 0 | % | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.4. Mobility in soil: | | | | | | | No adsorption in soil. |

| Notes |
|----------------|
| NULES |
| |
| No PBT |
| substance, No |
| vPvB substance |
| |



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| 12.1. Toxicity to fish: | LC50 | 96h | 15400 | mg/l | Lepomis macrochirus | | EPA-660/3-75- 009 |
|--------------------------------------|------|-----|-------|------|-------------------------------------|--|--------------------------|
| 12.1. Toxicity to daphnia: | EC50 | 96h | 18260 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | 003 |
| 12.1. Toxicity to algae: | EC50 | 96h | 22000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 99 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 28400 | | Chlorella vulgaris | | Not to be expected |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Other information: | DOC | | <70 | % | | | |
| Other information: | BOD | | >60 | % | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------------|-----------|-------|-------|------|-------------------------|--------------------|-------|
| 12.3. Bioaccumulative potential: | BCF | 60d | <0,1 | | | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 5600 | mg/l | Gambusia affinis | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 1483 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 34d | 119 | mg/l | Brachydanio rerio | OECD 210 (Fish, | |
| | | | | _ | - | Early-Life Stage | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 201 | mg/l | Daphnia magna | OECD 211 | |
| | | | | | | (Daphnia magna | |
| | | | | | | Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 1693 | mg/l | Ceriodaphnia | OECD 202 | |
| | | | | | spec. | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 975 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| 40.4 Taxiaitata almaa | | 701- | 000 | | De sude biretere si all | Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 326 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| Taniaita ta kaatania. | 500 | 4.01- | | | Describerto | Test) | |
| Toxicity to bacteria: | EC0 | 16h | 60 | mg/l | Pseudomonas | DIN 38412 T.8 | |
| Other information: | | | -1.53 | | putida | | |
| Other information: | Log Pow | | -1,53 | | | | |

| Butane | | | | | | | |
|----------------------------|----------|------|-------|------|----------|-------------|---------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 24,11 | mg/l | | QSAR | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 14,22 | mg/l | | QSAR | |
| 12.3. Bioaccumulative | Log Pow | | 2,98 | | | | A notable |
| potential: | | | | | | | biological |
| | | | | | | | accumulation |
| | | | | | | | potential is not to |
| | | | | | | | be expected |
| | | | | | | | (LogPow 1-3). |



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|---|-------------------------------------|------|-------------------|------|-------------------------------------|-------------|--|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Propane | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Molybdenum disulphide | | | 1 | T | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 781- 1339 | mg/l | Oncorhynchus mykiss | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 1680,4- 1776,6 | mg/l | Daphnia magna | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 2729,4 | mg/l | Daphnia magna | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 2847,5 | mg/l | Daphnia magna | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 130,9 | mg/l | Daphnia magna | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 1005,5- 1024,6 | mg/l | Ceriodaphnia spec. | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to algae: | ErC50 | 72h | 289,2- 390,9 | mg/l | Pseudokirchneriell a subcapitata | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to fish: | LC50 | 96h | 609- 681,4 | mg/l | Pimephales promelas | | Analogous conclusion(mg Mo/L) |
| 12.1. Toxicity to fish: | LC50 | 96h | 7600 | mg/l | Oncorhynchus mykiss | | Analogous conclusion(mg Mo/L) |
| Water solubility: | | | <0,1 | mg/l | | | @20°C |
| Isobutane | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. Bioaccumulative potential: | | | | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.1. Toxicity to fish: | LC50 | 96h | 27,98 | mg/l | | | (Logi ow 1-0). |
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71 | mg/l | | | |
| 12.2. Persistence and degradability: 12.5. Results of PBT | | | | | | | Readily biodegradable No PBT |
| and vPvB assessment | | | | | | | substance, No vPvB substance |



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

| 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 |
| 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. |
| 15 01 04 metallic packaging |
| 15 01 10 packaging containing residues of or contaminated by hazardous substances |
| Recycling |
| |

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

| General statements 14.1. UN number: | 1950 | |
|---|----------------------|---|
| Transport by road/by rail (ADR/RID) | | |
| 14.2. UN proper shipping name: | | • |
| UN 1950 AEROSOLS | | |
| 14.3. Transport hazard class(es): | 2.1 | • |
| 14.4. Packing group: Classification code: | - 5F | |
| LQ: | 1 L | |
| 14.5. Environmental hazards: | Not applicable | |
| Tunnel restriction code: | D | |
| Transport by sea (IMDG-code) | | |
| 14.2. UN proper shipping name: | | |
| AEROSOLS | | |
| 14.3. Transport hazard class(es): | 2.1 | |
| 14.4. Packing group: | | |
| EmS: Marine Pollutant: | F-D, S-U n.a | |
| 14.5. Environmental hazards: | Not applicable | |
| Transport by air (IATA) | | |
| 14.2. UN proper shipping name: | | |
| Aerosols, flammable | | |
| 14.3. Transport hazard class(es): | 2.1 | |
| 14.4. Packing group: | - | • |
| 14.5. Environmental hazards: | Not applicable | |
| 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. Transport in bulk according to Annex II of | | |
| Freighted as packaged goods rather than in bulk, therefore not applica | able. | |
| Minimum amount regulations have not been taken into account. | | |
| Danger code and packing code on request. Comply with special provisions. | | |
| | | |
| SECTION 15: Reg | gulatory information | |



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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

Methanol

Disodium tetraborate, anhydrous

This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions, see Regulation (EU) 2019/1148 and the guidelines for implementing Regulation (EU) 2019/1148. 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 | Qualifying quantity (tonnes) of |
|-------------------|------------------|--------------------------------------|--------------------------------------|
| | | dangerous substances as | dangerous substances as |
| | | referred to in Article 3(10) for the | referred to in Article 3(10) for the |
| | | application of - Lower-tier | application of - Upper-tier |
| | | requirements | requirements |
| 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 2012/18/EU ("Seveso III"). Annex I. Part 2 - This product contains the substances listed below:

| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity | Qualifying quantity |
|----------|------------------------|------------------|-----------------------------|-----------------------------|
| | | | (tonnes) for the | (tonnes) for the |
| | | | application of - Lower-tier | application of - Upper-tier |
| | | | requirements | requirements |
| 18 | Liquefied flammable | 19 | 50 | 200 |
| | gases, Category 1 or 2 | | | |
| | (including LPG) and | | | |
| | natural gas | | | |
| | | | | |

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):

VOC (CH): MAK/BAT:

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

15

Revised sections:

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.

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. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |

91,2 %

0,156kg/300ml



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| STOT SE 3, H336 | Classification according to calculation procedure. |
|-------------------------|---|
| Aquatic Chronic 3, H412 | 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 (specified in Section 2 and 3).

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H360FD May damage fertility. May damage the unborn child.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

H411 Toxic to aquatic life with long lasting effects. H220 Extremely flammable gas.

----- g-

Eye Irrit. — Eye 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. Liq. — Flammable liquid Flam. Gas — Flammable gases - Flammable gas Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - oral STOT SE — Specific target organ toxicity - single exposure Repr. — Reproductive toxicity

Any abbreviations and acronyms used in this document:

according, according to acc., acc. to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) 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 Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council bw body weight 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 dry weight dw for example (abbreviation of Latin 'exempli gratia'), for instance e.g. ЕČ European Community ECHA European Chemicals Agency European Economic Community EEC EINECS European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances ELINCS



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| |
| EN European Norms |
| EPA United States Environmental Protection Agency (United States of America) |
| etc. et cetera EU European Union |
| 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 |
| 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) LQ Limited Quantities |
| MARPOL International Convention for the Prevention of Marine Pollution from Ships |
| n.a. not applicable |
| n.av. not available |
| n.c. not checked |
| n.d.a. no data available |
| OECD Organisation for Economic Co-operation and Development |
| org. organic |
| PBT persistent, bioaccumulative and toxic |
| PE Polyethylene |
| PNEC Predicted No Effect Concentration |
| ppm parts per million PVC Polyvinylchloride |
| PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, |
| Evaluation, Authorisation and Restriction of Chemicals) |
| REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List |
| Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. |
| 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 |
| UN RTDG United Nations Recommendations on the Transport of Dangerous Goods |
| VOC Volatile organic compounds |
| vPvB very persistent and very bioaccumulative |
| wwt wet weight |
| |
| 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. |

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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