

Page 1 of 37 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 22.11.2024 / 0025 Replacing version dated / version: 01.11.2023 / 0024 Valid from: 22.11.2024 PDF print date: 22.11.2024 LM 203 MoS2-Gleitlack LM 203 MoS2 Anti-Friction Lacquer

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

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

1.1 Product identifier

LM 203 MoS2-Gleitlack LM 203 MoS2 Anti-Friction Lacquer

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

See definition of the substance or mixture. **Uses advised against:** No information available at present.

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number Emergency information services / official advisory body:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland) **Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (LMR) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

| 2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) | | | | | | | |
|---|---|---|--|--|--|--|--|
| Hazard class Hazard category Hazard statement | | | | | | | |
| Eye Irrit. | 2 | H319-Causes serious eye irritation. | | | | | |
| 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)



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Danger

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 / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking. EUH208-Contains Maleic anhydride. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. Acetone 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 %).

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

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

| 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, REACH-IT List-No. | 203-692-4 |
| CAS | 109-66-0 |
| content % | 15-<25 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Flam. Liq. 1, H224 |
| | STOT SE 3, H336 |
| | Asp. Tox. 1, H304 |
| | Aquatic Chronic 2, H411 |
| | |
| Ethanol | |
| Registration number (REACH) | 01-2119457610-43-XXXX |



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| Index | 603-002-00-5 |
|--|---|
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-578-6 |
| CAS | 64-17-5 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| Specific Concentration Limits and ATE | Eye Irrit. 2, H319: >=50 % |
| · · | |
| 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, REACH-IT List-No. | 204-065-8 |
| CAS | 115-10-6 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Gas 1A, H220 |
| | |
| Butanone | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | 01-2119457290-43-XXXX |
| Index | 606-002-00-3 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 201-159-0 |
| CAS | 78-93-3 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | |

| 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, REACH-IT List-No. | 200-662-2 |
| CAS | 67-64-1 |
| content % | 1-<5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 |
| | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |

STOT SE 3, H336

| Methanol | Substance for which an EU exposure limit value applies. | | | |
|--|---|--|--|--|
| Registration number (REACH) | 01-2119433307-44-XXXX | | | |
| Index | 603-001-00-X | | | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-659-6 | | | |
| CAS | 67-56-1 | | | |
| content % | 0,1-<1 | | | |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 | | | |
| | Acute Tox. 3, H301 | | | |
| | Acute Tox. 3, H311 | | | |
| | Acute Tox. 3, H331 | | | |
| | STOT SE 1, H370 | | | |
| Specific Concentration Limits and ATE | STOT SE 1, H370: >=10 % | | | |
| | STOT SE 2, H371: >=3 % | | | |
| | ATE (oral): 100 mg/kg | | | |
| | ATE (dermal): 300 mg/kg | | | |
| | ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h | | | |
| | ATE (as inhalation, Vapours): 3 mg/l/4h | | | |
| | | | | |
| 2-Butoxyethanol | Substance for which an EU exposure limit value applies. | | | |
| Registration number (REACH) | 01-2119475108-36-XXXX | | | |
| Index | 603-014-00-0 | | | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-905-0 | | | |
| CAS | 111-76-2 | | | |
| content % | 0,1-<1 | | | |



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| Acute Tox. 3, H331 |
|---|
| Acute Tox. 4, H302 |
| Skin Irrit. 2, H315 |
| Eye Irrit. 2, H319 |
| ATE (oral): 1200 mg/kg |
| ATE (as inhalation, Aerosol): 0,5 mg/l/4h |
| ATE (as inhalation, Vapours): 3 mg/l |
| |

| Disodium tetraborate, anhydrous | SVHC-substance |
|--|-----------------------|
| Registration number (REACH) | 01-2119490790-32-XXXX |
| Index | 005-011-00-4 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 215-540-4 |
| CAS | 1330-43-4 |
| content % | 0,01-<0,3 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Eye Irrit. 2, H319 |
| | Repr. 1B, H360FD |

| Maleic anhydride | |
|--|--|
| Registration number (REACH) | 01-2119472428-31-XXXX |
| Index | 607-096-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-571-6 |
| CAS | 108-31-6 |
| content % | 0,0001-<0,001 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH071 |
| | Acute Tox. 4, H302 |
| | Skin Corr. 1B, H314 |
| | Eye Dam. 1, H318 |
| | Resp. Sens. 1, H334 |
| | Skin Sens. 1A, H317 |
| | STOT RE 1, H372 (respiratory system) (as inhalation) |
| Specific Concentration Limits and ATE | Skin Sens. 1A, H317: >=0,001 % |
| | ATE (oral): 1090 mg/kg |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

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.



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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. 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 hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases Danger of bursting (explosion) when heated Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. 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

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent 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.



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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.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

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.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Pentane | | | | | | |
|--|--------------|--|----------------------------|--|--|--|--|
| WEL-TWA: 1800 mg/m3 (600 ppm |) (WEL-TWA), | WEL-STEL: | | | | | |
| 3000 mg/m3 (1000 ppm) (EU) | | | | | | | |
| Monitoring procedures: | - | Draeger - Pentane 100/a (67 24 701) | | | | | |
| | - | Compur - KITA-113 SB(C) (549 368) | | | | | |
| | | DFG (D) (Loesungsmittelgemische Meth. Nr. 1), DFG (E) (S | olvent mixtures 1) - 1998, | | | | |
| | - 2002 | | | | | | |
| - NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003 | | | | | | | |
| - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 | | | | | | | |
| BMGV: Other information: | | | | | | | |
| Chemical Name Ethanol | | | | | | | |
| 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) | | | | | |



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|--|---|
| | DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) |
| | DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) |
| | DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) |
| BMGV: | Other information: |
| Chemical Name | Dimethyl ether |
| WEL-TWA: 400 ppm (766 mg/m3 ppm (1920 mg/m3) (EU) | |
| Monitoring procedures: | - Compur - KITA-123 S (549 129) |
| BMGV: | Other information: |
| Chemical Name | Butanone |
| WEL-TWA: 200 ppm (600 mg/m3 | 3) (WEL-TWA, EU) WEL-STEL: 300 ppm (899 mg/m3) (WEL-STEL), 300 ppm (900 mg/m3) (EU) |
| Monitoring procedures: | - Compur - KITA-122 SA(C) (549 277) |
| | Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) |
| | DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015 |
| | - 2002 |
| | INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, |
| | methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105-1 (2004) |
| | MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid |
| | - sorbent tubes, thermal desorption and gas chromatography) - 1993 |
| | - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 |
| | NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 |
| | NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR |
| | - SPECTROMETRY) - 2016 |
| | - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 |
| BMGV: 70 µmol butan-2-one/l in | urine, post shift (BMGV) Other information: Sk |
| Chemical Name | Acetone |
| WEL-TWA: 500 ppm (1210 mg/n | |
| Monitoring procedures: | - Draeger - Acetone 100/b (CH 22 901) |
| | Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) |
| | - Comput - KITA-102 SX (548 554) |
| | - Comput - KITA-102 SD (551 109) |
| | INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, |
| | methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - |
| | EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid |
| | - sorbent tubes, thermal desorption and gas chromatography) - 1993 |
| | - NIOSH 1300 (KETONES I) - 1994 |
| | NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 |
| | - NIOSH 2555 (KETONES I) - 2003 |
| | NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR - SPECTROMETRY) - 2016 |
| | |
| | - USHA 69 (ACETODE) - 1988 |
| BMGV: | - OSHA 69 (Acetone) - 1988 Other information: |
| | Other information: |
| Chemical Name | Other information: Methanol |
| | Other information: Methanol |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3) | Other information: Methanol 3) (WEL-TWA), 200 WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL)) - Draeger - Alcohol 25/a Methanol (81 01 631) |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3 ppm (260 mg/m3) (EU) | Other information: Methanol 3) (WEL-TWA), 200 WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL)) - Draeger - Alcohol 25/a Methanol (81 01 631) - Compur - KITA-119 SA (549 640) |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3 ppm (260 mg/m3) (EU) | Other information: Methanol 3) (WEL-TWA), 200 WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL) - Draeger - Alcohol 25/a Methanol (81 01 631) - Compur - KITA-119 SA (549 640) - Compur - KITA-119 U (549 657) |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3 ppm (260 mg/m3) (EU) | Other information: Methanol |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3 ppm (260 mg/m3) (EU) | Methanol 3) (WEL-TWA), 200 WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL) - 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 (2004) - - NIOSH 2000 (METHANOL) - 1998 |
| Chemical Name WEL-TWA: 200 ppm (266 mg/m3 ppm (260 mg/m3) (EU) | Other information: Methanol 3) (WEL-TWA), 200 WEL-STEL: 250 ppm (333 mg/m3 (WEL-STEL) - 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 (2004) |



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| NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR - SPECTROMETRY) - 2016 - Draeger - Alcohol 100/a (CH 29 701) | | | | | | | | |
| BMGV: Other information: Sk (WEL, EU) | | | | | | | | |
| Chemical Name 2-Butoxyethanol | | | | | | | | |
| WEL-TWA: 25 ppm (123 mg/ ppm (98 mg/m3) (EU) | | | STEL: 50 ppm (24 | | 'EL-ST | EL, EU) | | |
| Monitoring procedures. | Monitoring procedures: - Compur - KITA-190 U(C) (548 873) DFG MethNr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 32-2 (2004) - NIOSH 1403 (ALCOHOLS IV) - 2003 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 | | | | | | | |
| PMCV/: 240 mmol butovy/200 | | | 3 (2-Butoxyethanol (| | | | | |
| BMGV: 240 mmol butoxyace | | | | Othe | | mation: SI | ((V E L) | |
| Chemical Name WEL-TWA: 1 mg/m3 | Disodium tetrabora | | /drous STEL: | | | | | |
| Monitoring procedures: | | - | 51LL | | | | | |
| BMGV: | | | | Othe | r inforr | mation: | - | |
| Chemical Name | Maleic anhydride | | | | | | | |
| WEL-TWA: 1 mg/m3 | | WEL- | STEL: 3 mg/m3 | | | | | |
| Monitoring procedures: BMGV: | | - | | Othe | r inforr | nation: Se | en | |
| Chemical Name | Butane | | | | | | | |
| WEL-TWA: 600 ppm (1450 n | | | STEL: 750 ppm (1 | | | | | |
| Monitoring procedures: | | | - KITA-221 SA (549 V2010 (n-Butane) - | | | | | |
| BMGV: | | | | | r inforr | mation: | - | |
| Chemical Name | Propane | | | | | | | |
| WEL-TWA: 1000 ppm (ACGI | IH) | | STEL: | | | | | |
| Monitoring procedures: | | | - KITA-125 SA (549 | | | | | |
| BMGV: | - 0 | ISHA P | V2077 (Propane) - 1 | | r inforr | nation: | | |
| | | | | Oule | | | - | |
| Chemical Name WEL-TWA: 10 mg/m3 (molyber) | Molybdenum disulp | | STEL: 20 mg/m3 (| molybdenum | incolu | iblo | | |
| compounds, as Mo) | | | ounds, as Mo) | morybuenum | 1113010 | IDIE | | |
| Monitoring procedures: | | | | | | | | |
| BMGV: | | | | Othe | r inforr | nation: | - | |
| Chemical Name MEL TWA: 4000 pres (EV) (| | 14/ | | | | | 1 | |
| WEL-TWA: 1000 ppm (EX) (Monitoring procedures: | | | STEL: - KITA-113 SB(C) (5 | (49 368) | | | | |
| BMGV: | | ompui | | | r inforr | mation: | | |
| | | | | | | | | |
| Pentane | | | | | | | | |
| Area of application | Exposure route / Environmental compartment | | Effect on health | Descr | iptor | Value | Unit | Note |
| | Environment - soil | | | PNEC | | 0.55 | mg/kg | |
| | Environment - sewage | | | DNEL | | 3,6 | mg/l | |
| | treatment plant Environment - periodic | | | | | 0.00 | | |
| | | | PNEC | | 0,88 | mg/l | | |
| | r | | PNEC | | 0,23 | mg/l | | |
| | | | PNEC | | 0,23 | mg/l | | |
| | Environment - sediment, freshwater | | | PNEC | | 1,2 | mg/kg | |
| | Environment - sediment, | | | PNEC | | 1,2 | mg/kg | |
| | marine | | | | | | 5.5 | |



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| 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 | |

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|---------------------|------|
| | Environmental compartment | | | | | |
| | 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 dry weight | |
| | 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 | 0,155 | mg/l | |
| | Environment - sediment, | | PNEC | 0,681 | mg/kg | |
| | freshwater | | | | | |
| | Environment - soil | | PNEC | 0,045 | mg/kg | |
| | Environment - sewage | | PNEC | 160 | mg/l | |
| | treatment plant | | | | | |
| | Environment - marine | | PNEC | 0,016 | mg/l | |
| | Environment - water, | | PNEC | 1,549 | mg/l | |
| | sporadic (intermittent) | | | | | |
| | release | | | | | |



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| | Environment - sediment, | | PNEC | 0,069 | mg/kg | |
|---------------------|-------------------------|--------------------------------|------|-------|-------|--|
| | marine | | | | | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 471 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 1894 | mg/m3 | |

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

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|--------------------------------|------------|-------|-----------------|-------------------------------------|
| | Environment - marine | | PNEC | 1,06 | mg/l | Assessmer t factor 500 |
| | Environment - freshwater | | PNEC | 10,6 | mg/l | Assessmer t 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 | 100 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 21 | mg/l | Assessmer t factor 100 |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assessmen t factor 2 |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 62 | mg/kg bw/day | Overall assessmen t factor 20 |



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

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|---------------------------------|------------|-------|-----------------|------|
| | 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 | 26 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 26 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 20 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 130 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 130 | mg/m3 | |

| Area of application | Exposure route / Environmental | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|-----------------------------------|------------------|------------|-------|----------|------|
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 8,8 | mg/l | |
| | Environment - marine | | PNEC | 0,88 | mg/l | |
| | Environment - sediment, | | PNEC | 34,6 | mg/kg dw | |
| | freshwater | | | | | |



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| | Environment - soil | | PNEC | 2,8 | mg/kg dw |
|---------------------|--|---------------------------------|------|------|------------|
| | Environment - sewage | | PNEC | 463 | mg/l |
| | treatment plant | | | | |
| | Environment - sediment, | | PNEC | 3,46 | mg/kg dw |
| | marine | | | | |
| | Environment - sporadic (intermittent) release | | PNEC | 9,1 | mg/l |
| | Environment - soil | | PNEC | 2,33 | mg/kg |
| | Environment - oral (animal feed) | | PNEC | 20 | mg/kg |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 123 | mg/m3 |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 44,5 | mg/kg bw/d |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 426 | mg/m3 |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 13,4 | mg/kg bw/d |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 147 | mg/m3 |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 38 | mg/kg bw/d |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 49 | mg/m3 |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 3,2 | mg/kg bw/d |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 89 | mg/kg bw/d |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 663 | mg/m3 |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 246 | mg/m3 |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 75 | mg/kg bw/d |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 98 | mg/m3 |

| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--------------------------|--------------------------------|------------|-------|---------|------|
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 2,9 | mg/l | |
| | Environment - marine | | PNEC | 2,9 | mg/l | |
| | Environment - soil | | PNEC | 5,7 | mg/kg | |
| | Environment - sewage | | PNEC | 10 | mg/l | |
| | treatment plant | | | | | |
| | Environment - water, | | DNEL | 13,7 | mg/l | |
| | sporadic (intermittent) | | | | Ŭ | |
| | release | | | | | |
| Consumer | Human - inhalation | Long term, systemic | DNEL | 3,4 | mg/m3 | |
| | | effects | | | | |
| Consumer | Human - dermal | Long term, systemic | DNEL | 159.5 | mg/kg | |
| | | effects | | | 5.5 | |
| Consumer | Human - oral | Long term, systemic | DNEL | 0,79 | mg/kg | |
| Conodinor | | effects | DITE | 0,10 | ing/ng | |
| Consumer | Human - oral | Short term, systemic | DNEL | 0,79 | mg/kg | |
| Consumer | | effects | | 0,70 | ing/kg | |
| Workers / employees | Human - inhalation | Long term, systemic | DNEL | 6,7 | mg/m3 | |
| workers / employees | | effects | | 0,7 | ing/ins | |
| | | | | 240.4 | | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 316,4 | mg/kg | |



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Maleic anhydride Area of application Exposure route / Effect on health Descriptor Value Unit Note Environmental compartment Environment - freshwater PNEC 0,038 mg/l Environment - marine PNEC 0,0038 mg/l PNEC Environment - water, 0,379 mg/l sporadic (intermittent) release Environment - sediment, PNEC 0,296 mg/kg freshwater Environment - sediment, PNEC 0,0296 mg/kg marine Environment - soil PNEC 0,037 mg/kg Environment - sewage PNEC 44,6 mg/l treatment plant Human - inhalation DNEL 0.081 Workers / employees Long term, systemic mg/m3 effects Human - inhalation DNEL Workers / employees Short term, systemic 0.2 mg/m3 effects Long term, local effects Workers / employees Human - inhalation DNEL 0.081 mg/m3 Workers / employees Human - inhalation Short term, local DNEL 0,2 mg/m3 effects DNEL 0,04 Workers / employees Human - dermal Long term, systemic mg/kg bw/d effects Long term, local effects DNEL 0.04 mg/kg bw/d Workers / employees Human - dermal Workers / employees Human - dermal Short term, systemic DNEL 0,04 mg/kg bw/d effects DNEL Short term, local 0.04 Workers / employees Human - dermal mg/kg bw/d effects

(GB) - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits

(Fourth Edition 2020)). (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".



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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 ISO 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. 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

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



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Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids: Does not apply to aerosols. Insoluble Does not apply to mixtures. 4000 hPa ~0,61 g/cm3 (Does not apply to aerosols.) 0,8 g/ml (Active substance) Does not apply to aerosols. Does not apply to aerosols.

When using: development of explosive vapour/air mixture possible. No

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--|----------|-------|---------|----------|-------------|------------------------------|
| Acute toxicity, by oral route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by dermal route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/4h | | | calculated value, Vapours |
| Acute toxicity, by inhalation: | ATE | >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. |



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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|-------|----------|-------------|---|
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | |
| Symptoms: | | | | | | drying of the skin., respiratory distress, coughing, fever, drowsiness, dizziness, |
| | | | | | | nausea, headaches, unconsciousness , burning of the membranes of |
| | | | | | | the nose and |
| | | | | | | throat |

| Ethanol Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|------------------|---------------------|---|-------------|-------------------------------------|------------------|
| Acute toxicity, by oral route: | LD50 | 10470 | mg/kg | Rat | OECD 401 (Acute Oral | NOLES |
| Acute toxicity, by oral route. | LDJU | 10470 | iiig/kg | Nai | Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | malka | Rabbit | OECD 402 (Acute | |
| Acute toxicity, by dermai route. | LD50 | >2000 | mg/kg | Rappil | | |
| | LC50 | 54 404 7 | | Rat | Dermal Toxicity) OECD 403 (Acute | |
| Acute toxicity, by inhalation: | LCSU | 51-124,7 | mg/l/4h | Rat | | Vapours |
| | | | | D. LL Y | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosion) | |
| Serious eye damage/irritation: | | OECD 405 (Acute Eye | Eye Irrit. 2 | | | |
| | | | | | 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) | |
| Germ cell mutagenicity: | utagenicity: OEC | OECD 473 (In Vitro | Negative | | | |
| 3 <i>i</i> | | | | | Mammalian | Ū |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian | Negative |
| 5 , | | | | | Bone Marrow | 0 |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Carcinogenicity: | NOAEL | >3000 | mg/kg | Rat | OECD 451 | 24 mon |
| | | | | | (Carcinogenicity Studies) | |
| Reproductive toxicity: | NOAEL | 5200 | mg/kg | Rat | OECD 416 (Two- | |
| | | 0200 | bw/d | | generation | |
| | | | , a la l | | Reproduction Toxicity | |
| | | | | | Study) | |
| Specific target organ toxicity - | NOAL | >20 | mg/l | Rat | OECD 403 (Acute | Male |
| repeated exposure (STOT-RE): | | -20 | ling/i | | Inhalation Toxicity) | Maio |
| Specific target organ toxicity - | NOAEL | 1730 | mg/kg/d | Rat | OECD 408 (Repeated | Female |
| repeated exposure (STOT-RE): | NOALL | 1750 | mg/kg/u | inal | Dose 90-Day Oral | |
| repeated exposure (STOT-RE). | | | | | Toxicity Study in | |
| | | | | | Rodents) | |
| | | | | | Rouenis) | |



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| Symptoms: | | | respiratory |
|-----------|--|--|-----------------|
| | | | distress, |
| | | | drowsiness, |
| | | | unconsciousness |
| | | | , drop in blood |
| | | | pressure, |
| | | | vomiting, |
| | | | coughing, |
| | | | headaches, |
| | | | intoxication, |
| | | | drowsiness, |
| | | | mucous |
| | | | membrane |
| | | | irritation, |
| | | | dizziness, |
| | | | nausea |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|--------------------------|-------------------|
| Acute toxicity, by inhalation: | LC50 | 164 | mg/l/4h | Rat | OECD 403 (Acute | |
| | | | | | Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin | | | | | | No (skin contact) |
| sensitisation: | | | | | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial | Negative |
| | | | | | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | | OECD 477 (Genetic | Negative |
| | | | | | Toxicology - Sex-Linked | |
| | | | | | Recessive Lethal Test | |
| | | | | | in Drosophilia | |
| | | | | | melanogaster) | |
| Carcinogenicity: | NOAEC | 47000 | mg/m3 | Rat | OECD 453 (Combined | Negative |
| | | | | | Chronic | |
| | | | | | Toxicity/Carcinogenicity | |
| | | | | | Studies) | |
| Reproductive toxicity: | NOAEL | 5000 | ppm | Rat | OECD 414 (Prenatal | |
| | | | | | Developmental Toxicity | |
| | | | | | Study) | |
| Specific target organ toxicity - | NOAEC | 47106 | mg/kg | Rat | OECD 452 (Chronic | Negative(2 a) |
| repeated exposure (STOT-RE): | | | | | Toxicity Studies) | |
| Aspiration hazard: | <u> </u> | | | | | No |

| Butanone | | | | | | |
|----------------------------------|----------|---------|---------|----------|---|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 2193 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Acute toxicity, by dermal route: | LD50 | 5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 34-34,5 | mg/l/4h | Rat | | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |



| - GB | | | | | | |
|---|---------------|--------|-----------------|---------------------------|---|---|
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| Replacing version dated / versior Valid from: 22.11.2024 | n: 01.11.2023 | / 0024 | | | | |
| PDF print date: 22.11.2024 | | | | | | |
| LM 203 MoS2-Gleitlack LM 203 MoS2 Anti-Friction Lacqu | ler | | | | | |
| · | - | | | | | |
| 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 |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H336, May |
| | | | | | | cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 5041 | ppm/6h/d | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study) | Vapours, Negative |
| Symptoms: | | | | | | respiratory distress, drowsiness. |
| | | | | | | unconsciousness |
| | | | | | | , drop in blood pressure, |
| | | | | | | coughing, |
| | | | | | | headaches, cramps, |
| | | | | | | intoxication, |
| | | | | | | drowsiness, |
| | | | | | | mucous |
| | | | | | | membrane irritation, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting., mental |
| | | | | | | confusion, fatigue |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-----------|---------|-------------|------------------------|-------------------|
| Acute toxicity, by oral route: | LD50 | 5800-7190 | mg/kg | Rat | OECD 401 (Acute Oral | |
| | | | | | 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 | | Not irritant, |
| | | | | | | Repeated |
| | | | | | | exposure may |
| | | | | | | cause skin |
| | | | | | | dryness or |
| | | | | | | cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Eye Irrit. 2 |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | Not sensitizising |
| sensitisation: | | | | | Sensitisation) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro | Negative |
| | | | | | Mammalian Cell Gene | |
| | | | | | Mutation Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| - • | | | | typhimurium | Reverse Mutation Test) | - |



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| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
|---|-------|------|---------------|-----------|---|--|
| Carcinogenicity: | | | | Mouse | , | Negative, References |
| Reproductive toxicity (Developmental toxicity): | NOAEC | 2200 | ppm | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H336, May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| Symptoms: | | | | | | unconsciousness , vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|---------------|--------------------------|------------------|
| Acute toxicity, by oral route: | ATE | 100 | mg/kg | Human being | | Experiences on |
| route textery, by eral reate. | /= | 100 | ing/ng | l laman boing | | persons. |
| Acute toxicity, by dermal route: | LD50 | 17100 | mg/kg | Rabbit | | Does not |
| | | | | | | conform with EU |
| | | | | | | classification. |
| Acute toxicity, by dermal route: | ATE | 300 | mg/kg | | | |
| Acute toxicity, by inhalation: | ATE | 3 | mg/l/4h | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 0,5 | mg/l/4h | | | Dusts or mist |
| Skin corrosion/irritation: | | - / - | | Rabbit | | Not irritantBASF |
| | | | | | | Test |
| 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: | | | | Mammalian | OECD 476 (In Vitro | Negative |
| | | | | | Mammalian Cell Gene | - |
| | | | | | Mutation Test) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian | Negative |
| | | | | | Erythrocyte | - |
| | | | | | Micronucleus Test) | |
| Carcinogenicity: | | | | Mouse | OECD 453 (Combined | Negative |
| | | | | | Chronic | |
| | | | | | Toxicity/Carcinogenicity | |
| | | | | | Studies) | |
| Reproductive toxicity: | NOAEL | 1,3 | mg/l | Mouse | OECD 416 (Two- | |
| | | | | | generation | |
| | | | | | Reproduction Toxicity | |
| | | | | | Study) | |



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| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL | 0,13 | mg/l | Rat | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | |
|--|-------|------|------|-----|---|---|
| Symptoms: | | | | | | abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion, intoxication, dizziness |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|---------------------|----------|-------------|---------------------------|------------------|
| Acute toxicity, by oral route: | ATE | 1200 | mg/kg | | | |
| Acute toxicity, by dermal route: | LD50 | 2275 | mg/kg | Rabbit | OECD 402 (Acute | |
| | | | | | Dermal Toxicity) | |
| Acute toxicity, by inhalation: | ATE | 3 | mg/l | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 0,5 | mg/l/4h | | | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | Regulation (EC) | Skin Irrit. 2, |
| | | | | | 440/2008 B.4 (DERMAL | Product remove |
| | | | | | IRRITATION/CORROSI | fat. |
| | | | | | ON) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Eye Irrit. 2 |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact |
| sensitisation: | | | | | Sensitisation) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian | Negative |
| | | | | | Erythrocyte | |
| | | | | | Micronucleus Test) | |
| Germ cell mutagenicity: | | OECD 471 (Bacterial | Negative | | | |
| | | | | typhimurium | Reverse Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro | Negative |
| | | | | | Mammalian Cell Gene | |
| | | | | | Mutation Test) | |
| Carcinogenicity: | | | | Rat | OECD 451 | Negative |
| | | | | | (Carcinogenicity Studies) | |
| Carcinogenicity: | NOAEC | 125 | ppm | Mouse | OECD 451 | Negative |
| | | | | | (Carcinogenicity Studies) | |
| Reproductive toxicity: | NOAEL | 720 | mg/kg | | | |
| | | | bw/d | | | |
| Specific target organ toxicity - | NOAEL | <69 | mg/kg | Rat | OECD 408 (Repeated | |
| repeated exposure (STOT-RE), | | | bw/d | | Dose 90-Day Oral | |
| oral: | | | | | Toxicity Study in | |
| - | | | | | Rodents) | |
| Specific target organ toxicity - | NOAEL | >150 | mg/kg | Rabbit | OECD 411 (Subchronic | |
| repeated exposure (STOT-RE), | | | bw/d | | Dermal Toxicity - 90-day | |
| dermal: | | | | | Study) | |
| Aspiration hazard: | | | | | | No |



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| Symptoms: | | acidosis, ataxia, |
|-----------|--|-------------------|
| | | breathing |
| | | difficulties, |
| | | respiratory |
| | | distress, |
| | | drowsiness, |
| | | unconsciousness |
| | | , annoyance, |
| | | coughing, |
| | | headaches, |
| | | gastrointestinal |
| | | disturbances, |
| | | insomnia, |
| | | mucous |
| | | membrane |
| | | irritation, |
| | | dizziness, |
| | | nausea |

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|--------|---------------|------------|---|---|
| Acute toxicity, by oral route: | LD50 | 2500 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | > 2000 | mg/kg | Rabbit | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| 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: | | | | Rat | OECD 451 (Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 155 | mg/kg | Rat | | |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 155 | mg/kg bw/d | Rat | | |
| Symptoms: | | | | | | breathing difficulties, abdominal pain, annoyance, discoloration of the skin, heart/circulatory disorders, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting. |



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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|------------------|-------|---------------|-------------|--|--|
| Acute toxicity, by oral route: | LD50 | 1090 | mg/kg | Rat | OECD 401 (Acute Oral | |
| A | | 4000 | | | Toxicity) | |
| Acute toxicity, by oral route: | ATE | 1090 | mg/kg | D. LL Y | | |
| Acute toxicity, by dermal route: | LD50 | 2620 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >4,35 | mg/l/1h | Mouse | | |
| Skin corrosion/irritation: | | | | Human being | | Corrosive |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Corr. 1B |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Sensitising (skir contact) |
| Respiratory or skin | | | | Rat | | Sensitising |
| sensitisation: | | | | | | (inhalation) |
| Germ cell mutagenicity: | | | | | bacterial | References, Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Carcinogenicity: | NOAEL | >100 | mg/kg bw/d | Rat | Aberration resty | oral |
| Reproductive toxicity: | NOAEC | 650 | mg/kg bw/d | Rat | | |
| Reproductive toxicity: | NOAEL | 55 | mg/kg | Rat | OECD 416 (Two- generation Reproduction Toxicity Study) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 10 | mg/kg/d | Rat | OECD 452 (Chronic Toxicity Studies) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 3,3 | mg/m3 | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study) | Vapours |
| Symptoms: | | | | | | asthmatic symptoms, breathing difficulties, respiratory distress, burning of the membranes of the nose and throat, blisters, coughing, headaches, gastrointestinal disturbances, mucous membrane irritation, watering eyes, nausea |
| | I | I | | · | I | |
| Butane | En de stat | Value | Lie? | Ormanian | To at moth a d | Notos |
| Toxicity / effect Acute toxicity, by inhalation: | Endpoint LC50 | Value | Unit | Organism | Test method | Notes |



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|---|----------------------------|--------|-------------------|---------------------------|--|--|
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Human being | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 21,394 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening 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 | | |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male, Analogous conclusion |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEC | 21,641 | mg/l | | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 7,214 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL | 21,641 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test) | |
| Aspiration hazard: | | | | | 3 / | No |



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

| 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 | | |
| 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 |

| Isobutane | | | | | | |
|----------------------------------|----------|--------|---------|-------------|------------------------|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Specific target organ toxicity - | NOAEL | 21,394 | mg/l | Rat | OECD 422 (Combined | |
| repeated exposure (STOT-RE), | | | | | Repeated Dose Tox. | |
| inhalat.: | | | | | Study with the | |
| | | | | | Reproduction/Developm. | |
| | | | | | Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconsciousness |
| | | | | | | , frostbite, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |

11.2. Information on other hazards

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|------|----------|-------------|-----------------|
| Endocrine disrupting properties: | | | | | | Does not apply |
| | | | | | | to mixtures. |
| Other information: | | | | | | No other |
| | | | | | | relevant |
| | | | | | | information |
| | | | | | | available on |
| | | | | | | adverse effects |
| | | | | | | on health. |
| | | | | | | |
| Ethanol | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |



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| Other information: | Excessive |
|--------------------|-------------------|
| | alcohol |
| | consumption |
| | during |
| | pregnancy |
| | induces the |
| | foetus alcohol |
| | syndrome |
| | (reduced weigh |
| | at birth, physica |
| | and mental |
| | disorders)., |
| | There is no sig |
| | that this |
| | syndrome is als |
| | caused by |
| | dermal or |
| | inhalative |
| | absorption., |
| | Experiences or |
| | persons. |

SECTION 12: Ecological information

| LM 203 MoS2-Gleitlack | | | | | | | | | |
|---|----------|------|-------|------|----------|-------------|---|--|--|
| LM 203 MoS2 Anti-Friction Lacquer | | | | | | | | | |
| 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 degradability: | | | | | | | n.d.a. | | |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. | | |
| 12.4. Mobility in soil: | | | | | | | n.d.a. | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. | | |
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. | | |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. | | |
| Other information: | | | | | | | DOC-elimination degree(complex ng organic substance)>= 80%/28d: n.a. | | |
| Other information: | AOX | | | % | | | According to the recipe, contains no AOX. | | |

| 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 | | |



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| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 7,51 | mg/l | Pseudokirchneriell a subcapitata | |
|--------------------------------------|-----------|-----|------|------|-------------------------------------|---|
| 12.2. Persistence and degradability: | | | | | | Readily biodegradable, Photochemical decomposition in the atmosphere. |
| 12.3. Bioaccumulative potential: | Log Pow | | 3,39 | | | |

| Ethanol | | | | | | | |
|-------------------------------------|-----------|------|-----------|--------|--------------------|--------------------|-----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus | OECD 203 (Fish, | |
| | | | | | mykiss | 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: | EC50 | 48h | 5414 | mg/l | Daphnia magna | OECD 202 | |
| | | _ | - | 5 | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 10d | 9,6 | mg/l | Ceriodaphnia | | References |
| , i | | | | 0 | spec. | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, | |
| , , | | | | 0 | | Growth Inhibition | |
| | | | | | | Test) | |
| 12.2. Persistence and | | 28d | 97 | % | activated sludge | OECD 301 B | Readily |
| degradability: | | | | | 0 | (Ready | biodegradable |
| 5 | | | | | | Biodegradability - | |
| | | | | | | Co2 Evolution | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative | Log Pow | | (-0,35) - | | | | Bioaccumulation |
| potential: | 5 | | (-0,32) | | | | is unlikely |
| | | | | | | | (LogPow < 1). |
| 12.3. Bioaccumulative | BCF | | 0,66 - | | | | |
| potential: | | | 3,2 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00013 | | | | |
| - | | | 8 | | | | |
| 12.4. Mobility in soil: | Koc | | 1,0 | | | | Highestimated |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 | Analogous |
| | | | | | | (Activated Sludge, | conclusion |
| | | | | | | Respiration | |
| | | | | | | Inhibition Test | |
| | | | | | | (Carbon and | |
| | | | | | | Ammonium | |
| | | | | | | Oxidation)) | |
| Other organisms: | NOEC/NOEL | | 280 | mg/l | Lemna gibba | OECD 201 (Alga, | |
| | | | | | | Growth Inhibition | |
| | | | | | | Test) | |
| Other information: | COD | | 1,9 | g/g | | | |
| Other information: | BOD5 | | 1 | g/g | | | |
| Dimentional anti- | | | | | | | |
| Dimethyl ether Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC0 | 96h | 2695 | mg/l | Pimephales | i est memou | NULES |
| 12.1. TOXICILY IO 11511. | | 3011 | 2095 | iiig/i | promelas | | |
| | | 1 | | | promeias | | |



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| 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 | | |
| Water solubility: | | | 45,60 | mg/l | | | 25°C |

| Butanone | | | - | r | 1 | 1 | |
|----------------------------|-----------|------|----------|-------|--------------------|---|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 1690 | mg/l | Lepomis | | |
| | | | | | macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2973 | mg/l | Pimephales | OECD 203 (Fish, | |
| | | | | _ | promelas | Acute Toxicity | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 308 | mg/l | Daphnia magna | OECD 202 | |
| , , | | | | U | 1 5 | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 1972 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| 12.11. Toxiony to algue. | 2000 | 7211 | 1072 | ing/i | a subcapitata | Growth Inhibition | |
| | | | | | a Subcapitata | Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | 2029 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| 12.1. TOxicity to algae. | 2030 | 3011 | 2025 | ing/i | a subcapitata | Growth Inhibition | |
| | | | | | a subcapitata | Test) | |
| 12.2. Persistence and | | 28d | 98 | % | | OECD 301 D | Readily |
| | | 200 | 90 | 70 | activated sludge | | biodegradable |
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - Closed Bottle Test) | |
| | | | 0.00.0.0 | | | OECD 117 | Disassuration |
| 12.3. Bioaccumulative | Log Pow | | 0,29-0,3 | | | | Bioaccumulatio |
| potential: | | | | | | (Partition | is unlikely |
| | | | | | | Coefficient (n- | (LogPow < 1). |
| | | | | | | octanol/water) - | |
| | | | | | | HPLC method) | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00002 | | | | 25°C |
| | | | 44 | | | | |
| 12.4. Mobility in soil: | Log Koc | | 3,8 | | | | |
| 12.5. Results of PBT | | | | | | | No vPvB |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | PBT substance |
| Toxicity to bacteria: | EC50 | 16h | 1150 | mg/l | Pseudomonas | DIN 38412 T.8 | |
| | | | | | putida | | |
| Other information: | DOC | | >70 | % | | | |
| Other information: | BOD/COD | | >50 | % | | | |
| A (| | | | | | | |
| Acetone | Endnaint | Time | Value | Unit | Organiam | Test method | Notes |
| Toxicity / effect | Endpoint | - | | | Organism | rest method | notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 5540 | mg/l | Oncorhynchus | | |

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| 12.1. Toxicity to fish: | LC50 | 96h | 7500 | mg/l | Leuciscus idus | | |
|---|-----------|-------|----------------|------|-------------------------------------|---|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 8300 | mg/l | Lepomis | | |
| | | | | | macrochirus | | |
| 12.1. Toxicity to fish: | EC50 | 96h | 8300 | mg/l | Lepomis macrochirus | | |
| 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 | 6100- 12700 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 8800 | mg/l | Daphnia pulex | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 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 | | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 8d | 530 | mg/l | | DIN 38412 T.9 | Test organism: M. aeruginosa |
| 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 |
| 12.2. Persistence and degradability: | | 28d | 91 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | Readily biodegradable |
| 12.2. Persistence and degradability: | | 28d | 91 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution 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 | | 3 | | | | Low |
| 12.4. Mobility in soil: | | | | | | | No adsorption i soil. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substanc |
| Toxicity to bacteria: | EC10 | 30min | 1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| Toxicity to bacteria: | BOD/COD | 16h | 1700 | mg/l | Pseudomonas putida | | |
| Other organisms: | EC5 | 72h | 28 | mg/l | Entosiphon sulcatum | | |



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| Other information: | BOD5 | 1760- 1900 | mg/g | | |
|--------------------|------|---------------|------|--|--|
| Other information: | AOX | 0 | % | | |
| Other information: | COD | 2070- 2100 | mg/g | | |

| Methanol | | | | | | | |
|---|----------|------|-------|------|-------------------------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 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) | |
| 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 |
| 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)) | |
| Other information: | Log Pow | | -0,77 | | | ,,, | |
| Other information: | DOC | | <70 | % | | | |
| Other information: | BOD | | >60 | % | | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|-------|------|--------------------|--------------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 1474 | mg/l | Oncorhynchus | OECD 203 (Fish, | |
| - | | | | - | mykiss | Acute Toxicity | |
| | | | | | | Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 21d | >100 | mg/l | Brachydanio rerio | OECD 204 (Fish, | |
| | | | | | | Prolonged Toxicity | |
| | | | | | | Test - 14-Day | |
| | | | | | | Study) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 1550 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 100 | mg/l | Daphnia magna | OECD 211 | |
| | | | | | | (Daphnia magna | |
| | | | | | | Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 1840 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 286 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| | | | | | a subcapitata | Growth Inhibition | |
| | | | | | | Test) | |



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| 12.2. Persistence and | | 28d | 95 | % | | OECD 301 E | Readily |
|----------------------------------|-----------|-----|---------|----------|-----------------------|--------------------|----------------|
| degradability: | | | | | | (Ready | biodegradable |
| | | | | | | Biodegradability - | - |
| | | | | | | Modified OECD | |
| | | | | | | Screening Test) | |
| 12.2. Persistence and | | 28d | >99 | % | | OECD 302 B | Readily |
| degradability: | | | | | | (Inherent | biodegradable |
| | | | | | | Biodegradability - | |
| | | | | | | Zahn- | |
| | | | | | | Wellens/EMPA | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative potential: | BCF | | 3,2 | | | | Slight |
| 12.3. Bioaccumulative | Log Pow | | 0,81 | | | OECD 107 | Not to be |
| potential: | | | | | | (Partition | expected |
| | | | | | | Coefficient (n- | |
| | | | | | | octanol/water) - | |
| | | | | | | Shake Flask | |
| | | | | | | Method) | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00000 | atm*m3/m | | | |
| | | | 16 | ol | | | |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |
| Toxicity to bacteria: | EC10 | 16h | >700 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|-----------|------|-------|------|--------------------|--------------------|------------------|
| 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, | |
| , , | | | | Ũ | a subcapitata | Growth Inhibition | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 326 | mg/l | Pseudokirchneriell | OECD 201 (Alga, | |
| , , | | | | Ū | a subcapitata | Growth Inhibition | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative | BCF | 60d | <0,1 | | | | Test organism: |
| potential: | | | | | | | O. tshawytscha |
| 12.3. Bioaccumulative | Log Pow | | -1,53 | | | Regulation (EC) | |
| potential: | • | | | | | 440/2008 A.8 | |
| | | | | | | (PARTITION | |
| | | | | | | COEFFICIENT) | |
| 12.5. Results of PBT | | | | | | , | Not relevant for |
| and vPvB assessment | | | | | | | inorganic |
| | | | | | | | substances. |
| Toxicity to bacteria: | EC0 | 16h | 60 | mg/l | Pseudomonas | DIN 38412 T.8 | |
| - | | | | _ | putida | | |
| Maleic anhydride | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |



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| 12.1. Toxicity to fish: | LC50 | 96h | 75 | mg/l | Oncorhynchus mykiss | | EPA-660/3-75- 009 |
|---|-----------|-----|-------|------|-------------------------------------|---|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 75 | mg/l | Lepomis macrochirus | | EPA-660/3-75- 009 |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 37,9 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 65,78 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC10 | 72h | 10,4 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 29 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 73-81 | % | activated sludge | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Hydrolysis, Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | -2,61 | | | OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method) | Not to be expected |
| 12.5. Results of PBT and vPvB assessment | | | | | | , | No PBT substance, No vPvB substanc |
| Toxicity to bacteria: | EC10 | 18h | 44,6 | mg/l | Pseudomonas putida | DIN 38412 T.8 | References |

| 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). |
| 12.4. Mobility in soil: | | | | | | | Not to be |
| | | | | | | | expected |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-----------------------|----------|------|-------|------|----------|-------------|---------------------|
| 12.3. Bioaccumulative | Log Pow | | 2,28 | | | | A notable |
| potential: | - | | | | | | biological |
| | | | | | | | accumulation |
| | | | | | | | potential is not to |
| | | | | | | | be expected |
| | | | | | | | (LogPow 1-3). |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |



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Molybdenum disulphide

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|---------|------|--------------------|-------------|------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 609- | mg/l | Pimephales | | Analogous |
| | | | 681,4 | | promelas | | conclusion(mg |
| | | | | | | | Mo/L) |
| 12.1. Toxicity to fish: | LC50 | 96h | 7600 | mg/l | Oncorhynchus | | Analogous |
| | | | | | mykiss | | conclusion(mg |
| | | | | | | | Mo/L) |
| 12.1. Toxicity to fish: | LC50 | 96h | 781- | mg/l | Oncorhynchus | | Analogous |
| | | | 1339 | | mykiss | | conclusion(mg |
| | | | | | | | Mo/L) |
| 12.1. Toxicity to daphnia: | LC50 | 48h | 1680,4- | mg/l | Daphnia magna | | Analogous |
| | | | 1776,6 | | | | 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- | mg/l | Ceriodaphnia | | Analogous |
| | | | 1024,6 | | spec. | | conclusion(mg |
| | | | | | - | | Mo/L) |
| 12.1. Toxicity to algae: | ErC50 | 72h | 289,2- | mg/l | Pseudokirchneriell | | Analogous |
| | | | 390,9 | | a subcapitata | | conclusion(mg |
| | | | | | | | Mo/L) |
| 12.2. Persistence and | | | | | | | Not relevant for |
| degradability: | | | | | | | inorganic |
| | | | | | | | substances. |
| 12.3. Bioaccumulative | | | | | | | Not relevant for |
| potential: | | | | | | | inorganic |
| | | | | | | | substances. |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substanc |

| Isobutane Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|----------|------|-------|------|----------|-------------|--|
| 12.1. Toxicity to fish: | LC50 | 96h | 27,98 | mg/l | ŭ | | |
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71 | mg/l | | | |
| 12.2. Persistence and degradability: | | | | | | | Readily biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | 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 |

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.: The waste codes are recommendations based on the scheduled use of this product.



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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

| Transport by road/by rail (ADR/RID) 14.1. UN number or ID number: 14.2. UN proper shipping name: | 1950 | | | | |
|---|---------------------|---|--|--|--|
| UN 1950 AEROSOLS | 2 / | | | | |
| 14.3. Transport hazard class(es): 14.4. Packing group: | 2.1 | • | | | |
| 14.4. Packing group. 14.5. Environmental hazards: | - Not applicable | | | | |
| Tunnel restriction code: | D | | | | |
| Classification code: | 5F | | | | |
| LQ: | 1L | | | | |
| Transport category: | 2 | | | | |
| Transport by sea (IMDG-code) | | | | | |
| 14.1. UN number or ID number: | 1950 | | | | |
| 14.2. UN proper shipping name: | | | | | |
| UN 1950 AEROSOLS | | | | | |
| 14.3. Transport hazard class(es): | 2.1 | | | | |
| 14.4. Packing group: | - | • | | | |
| 14.5. Environmental hazards: | Not applicable | | | | |
| Marine Pollutant: | Not applicable | | | | |
| EmS: | F-D, S-U | | | | |
| Transport by air (IATA) | | | | | |
| 14.1. UN number or ID number: | 1950 | | | | |
| 14.2. UN proper shipping name: | | | | | |
| UN 1950 Aerosols, flammable | | | | | |
| 14.3. Transport hazard class(es): | 2.1 | | | | |
| 14.4. Packing group: | - | | | | |
| 14.5. Environmental hazards: | 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. Maritime transport in bulk according to IM | O instruments | | | | |
| Freighted as packaged goods rather than in bulk, therefore not application | able. | | | | |
| Minimum amount regulations have not been taken into account. | | | | | |
| Danger code and packing code on request. | | | | | |
| Comply with special provisions. | | | | | |
| SECTION 15: Regulatory information | | | | | |

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



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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 guidelines for the implementation of 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 | | | | | |
| 22 | Methanol | | 500 | 5000 | | |

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):

90,76 %

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

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

8

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. |
| 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. |



Classification based on the form or physical state.

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Aerosol 1, H229

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure by inhalation. H317 May cause an allergic skin reaction. H301 Toxic if swallowed H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties 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. EUH066 Repeated exposure may cause skin dryness or cracking. EUH071 Corrosive to the respiratory tract. Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic - Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid Asp. Tox. — Aspiration hazard Flam. Gas - Flammable gases - Flammable gas Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - dermal Acute Tox. - Acute toxicity - inhalation STOT SE — Specific target organ toxicity - single exposure Skin Irrit. - Skin irritation Repr. — Reproductive toxicity Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Resp. Sens. - Respiratory sensitization Skin Sens. - Skin sensitization STOT RE - Specific target organ toxicity - repeated exposure Key literature references and sources for data: Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:



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 org.
 organic

 OSHA
 Occupational Safety and Health Administration (USA)

 PBT
 persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

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. 6/7/8/9xx-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

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: 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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