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

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

1.1 Product identifier

Marking Spray Yellow 500 ml Art.: 9094955

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Paint and marking spray
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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

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

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

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 Eve Irrit. H319-Causes serious eye irritation. 2 STOT SE H336-May cause drowsiness or dizziness. 3 3 H412-Harmful to aquatic life with long lasting effects. Aquatic Chronic Aerosol 1 H222-Extremely flammable aerosol. Aerosol 1 H229-Pressurised container: May burst if heated.



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2.2 Label elements

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



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 spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. 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.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Without adequate ventilation, formation of explosive mixtures may be possible. Ethyl acetate Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

2.3 Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

| Aerosol | |
|-----------------------------|--|
| 3.1 Substances | |
| n.a. | |
| 3.2 Mixtures | |
| Ethyl acetate | Substance for which an EU exposure limit |
| | value applies. |
| Registration number (REACH) | 01-2119475103-46-XXXX |
| Index | 607-022-00-5 |



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| EINECS, ELINCS, NLP, REACH-IT List-No. | 205-500-4 |
|---|--------------------|
| CAS | 141-78-6 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 | EUH066 |
| (CLP), M-factors | Flam. Liq. 2, H225 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |

| Titanium dioxide (in powder form containing 1 % or | |
|---|-------------------------------|
| more of particles with aerodynamic diameter <= 10 μm) | |
| Registration number (REACH) | 01-2119489379-17-XXXX |
| Index | 022-006-002 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 236-675-5 |
| CAS | 13463-67-7 |
| content % | <10 |
| Classification according to Regulation (EC) 1272/2008 | Carc. 2, H351 (as inhalation) |
| (CLP), M-factors | |

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

| Propan-2-ol | |
|---|-----------------------|
| Registration number (REACH) | 01-2119457558-25-XXXX |
| Index | 603-117-00-0 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-661-7 |
| CAS | 67-63-0 |
| content % | 1-<2,5 |
| Classification according to Regulation (EC) 1272/2008 | Flam. Liq. 2, H225 |
| (CLP), M-factors | Eye Irrit. 2, H319 |
| | STOT SE 3, H336 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures



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First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person! Inhalation Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor. Skin contact Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor. Eve 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 - give copious water to drink. Consult doctor immediately. 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. The following may occur: eyes, reddened Watering eyes Irritation of the respiratory tract Coughing Headaches Dizziness Effects/damages the central nervous system With long-term contact: drving of the skin. Dermatitis (skin inflammation) 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Water jet spray / alcohol resistant foam / CO2 / dry extinguisher. Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon 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.

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According to size of fire 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 contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. Prevent surface and ground-water infiltration, as well as ground penetration.

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

6.3 Methods and material for containment and cleaning up

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

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

Active substance:

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

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.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.



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Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed. **7.2 Conditions for safe storage, including any incompatibilities**Keep out of access to unauthorised individuals.
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Observe special regulations for aerosols!
Observe special storage conditions.
Do not store with flammable or self-igniting materials.
Keep protected from direct sunlight and temperatures over 50°C.
Store cool. **7.3 Specific end use(s)**No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m²

1200 mg/m3

| (B) Chemical Name | Ethyl acetate | | | Content %:10-<20 | | |
|--|----------------|--|---------------|---------------------|--|--|
| WEL-TWA: 200 ppm (734 | - mg/m3) | WEL-STEL: 400 ppm (1468 mg/m) | 3) | - | | |
| (WEL, EU) | | (WEL, EU) | | | | |
| Monitoring procedures: - Draeger - Ethyl Acetate 200/a (CH 20 201) | | | | | | |
| | | Compur - KITA-111 SA (549 160) | | | | |
| | | Compur - KITA-111 U(C) (549 178) | | | | |
| | | DFG Meth. Nr. 1 (D) (Loesungsmittelg | emische 2), I | DFG (E) | | |
| | - (| Solvent mixtures 2) - 1993, 2002 | | | | |
| |] | DFG Meth. Nr. 2 (D) (Loesungsmittelg | emische 3), l | DFG (E) | | |
| | - (| Solvent mixtures 3) - 2014, 2002 | | | | |
| |] | DFG Meth. Nr. 6 (D) (Loesungsmittelg | emische 4), l | DFG (E) | | |
| | - (| Solvent mixtures 4) - 2014, 2002 | | | | |
| | - 1 | NIOSH 1457 (ETHYL ACETATE) - 19 | 994 | | | |
| | I | NIOSH 2549 (VOLATILE ORGANIC | COMPOUN | DS | | |
| | - (| SCREENING)) - 1996 | | | | |
| BMGV: | | Other info | mation: | - | | |
| ® | Titanium diox | ide (in powder form containing 1 % or | more of | Content | | |
| Chemical Name | particles with | aerodynamic diameter $\leq 10 \mu\text{m}$) | | %:<10 | | |
| WEL-TWA: 10 mg/m3 (tot | tal inhalable | WEL-STEL: | | - | | |
| dust), 4 mg/m3 (respirable du | ist) | | | | | |
| Monitoring procedures: | - | | | | | |
| BMGV: | | Other info | rmation: | - | | |
| ^(B) Chemical Name | Hydrocarbons | , C7-C9, n-alkanes, isoalkanes, cyclics | | Content %:2,5-<5 | | |
| WEL-TWA: 1200 mg/m3 | | WEL-STEL: | | - | | |



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| Monitoring procedures: - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) - Compur - KITA-187 S (551 174) | | | | | |
|--|--|---|---|---------|--------------------------|
| BMGV: | - | Compur - KITA-18/ S (55) | Other information | · (OEI | L acc. to |
| BWOV | | | RCP-method, para | | |
| | | | KCI -Inctriou, para | igraphs | |
| Chemical Name | Propan-2-ol | | | | Content %:1- <2,5 |
| WEL-TWA: 400 ppm (999 | 9 mg/m3) | WEL-STEL: 500 ppm | | | |
| Monitoring procedures: | - | Draeger - Alcohol 25/a i-Pr | | | |
| | - | Compur - KITA-122 SA(C) | | | |
| | - | Compur - KITA-150 U (55 | | | |
| | | DFG (D) (Loesungsmittelge | | | |
| | | 2013, 2002 - EU project BC | C/CEN/ENTR/000/2 | 2002-16 | card 66-3 |
| | - | (2004) | | | |
| | - | NIOSH 1400 (ALCOHOLS | 5 I) - 1994 | | |
| | | NIOSH 2549 (VOLATILE | ORGANIC COMP | OUNDS | 5 |
| | - | (SCREENING)) - 1996 | | | |
| | - | Draeger - Alcohol 100/a (C | H 29 701) | | |
| BMGV: | | | Other information | : | |
| | 2 | | | | a |
| ⁽⁶⁸⁾ Chemical Name | Propane | | | | Content %: |
| Chemical Name WEL-TWA: 1000 ppm (A) | L | WEL-STEL: | | | Content %: |
| | L | WEL-STEL: Compur - KITA-125 SA (5- | 49 954) | | Content %: |
| WEL-TWA: 1000 ppm (A | L | | | | Content %: |
| WEL-TWA: 1000 ppm (A | L | Compur - KITA-125 SA (5- | | | Content %: |
| WEL-TWA: 1000 ppm (Ad Monitoring procedures: BMGV: | CGIĤ) - - | Compur - KITA-125 SA (5 OSHA PV2077 (Propane) - | 1990 | | |
| WEL-TWA: 1000 ppm (Ad Monitoring procedures: BMGV: | CGIH) - - Barium sulpl | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - | 1990 | : | Content %: Content %: |
| WEL-TWA: 1000 ppm (Ad Monitoring procedures: BMGV: Chemical Name WEL-TWA: 4 mg/m3 (resp | CGIH) - - Barium sulpl pirable dust), | Compur - KITA-125 SA (5 OSHA PV2077 (Propane) - | 1990 | | |
| WEL-TWA: 1000 ppm (Ad Monitoring procedures: BMGV: Chemical Name WEL-TWA: 4 mg/m3 (resp 10 mg/m3 (total inhalable du | CGIH) - - Barium sulpl pirable dust), | Compur - KITA-125 SA (5 OSHA PV2077 (Propane) - | 1990 | | |
| WEL-TWA: 1000 ppm (Ad Monitoring procedures: BMGV: Chemical Name WEL-TWA: 4 mg/m3 (resp | CGIH) - - Barium sulpl pirable dust), | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 | | |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information | | Content %: |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information | | |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information | | Content %: |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information | : | Content %: |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc dust) | Compur - KITA-125 SA (5- OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information Other information | : | Content %: Content %: |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc dust) Isobutane | Compur - KITA-125 SA (5: OSHA PV2077 (Propane) - nate WEL-STEL: WEL-STEL: | 1990 Other information Other information | : | Content %: |
| WEL-TWA: 1000 ppm (Additional content of the second se | CGIH) - - Barium sulpl pirable dust), st) Talc dust) Isobutane | Compur - KITA-125 SA (5: OSHA PV2077 (Propane) - nate WEL-STEL: | 1990 Other information Other information Other information | : | Content %: Content %: |

| Ethyl acetate | | | | | | |
|---------------------|------------------------|------------------|----------|-------|------|------|
| Area of application | Exposure route / | Effect on health | Descript | Value | Unit | Note |
| | Environmental | | or | | | |
| | compartment | | | | | |
| | Environment - | | PNEC | 0,24 | mg/l | |
| | freshwater | | | | | |
| | Environment - marine | | PNEC | 0,024 | mg/l | |
| | Environment - water, | | PNEC | 1,65 | mg/l | |
| | sporadic | | | | | |
| | (intermittent) release | | | | | |



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

| Titanium dioxide (in μ μm) | oowder form containing | 1 % or more of par | ticles with a | erodyna | mic diame | ter <= 10 |
|-------------------------------|--|--------------------|----------------|------------|-------------|-----------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descript or | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,184 | mg/l | |
| | Environment - marine | | PNEC | 0,018 4 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,193 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1000 | mg/kg dw | |



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| | Environment - | | PNEC | 100 | mg/kg |
|---------------------|--------------------|------------------|------|------|-------|
| | sediment, marine | | | | dw |
| | Environment - soil | | PNEC | 100 | mg/kg |
| | | | | | dw |
| | Environment - oral | | PNEC | 1667 | mg/kg |
| | (animal feed) | | | | feed |
| Consumer | Human - oral | Long term, | DNEL | 700 | mg/kg |
| | | systemic effects | | | bw/d |
| Workers / employees | Human - inhalation | Long term, local | DNEL | 10 | mg/m3 |
| | | effects | | | |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | |
|---|--------------------|------------------|----------|-------|-------|------|
| Area of application | Exposure route / | Effect on health | Descript | Value | Unit | Note |
| | Environmental | | or | | | |
| | compartment | | | | | |
| | Human - oral | Long term, | DNEL | 699 | mg/kg | |
| | | systemic effects | | | bw/d | |
| Consumer | Human - dermal | Long term, | DNEL | 699 | mg/kg | |
| | | systemic effects | | | bw/d | |
| Consumer | Human - inhalation | Long term, | DNEL | 608 | mg/m3 | |
| | | systemic effects | | | | |
| Workers / employees | Human - dermal | Long term, | DNEL | 773 | mg/kg | |
| | | systemic effects | | | bw/d | |
| Workers / employees | Human - inhalation | Long term, | DNEL | 2035 | mg/m3 | |
| | | systemic effects | | | | |

| Propan-2-ol | | | | | | |
|---------------------|------------------------|------------------|----------|-------|--------|------|
| Area of application | Exposure route / | Effect on health | Descript | Value | Unit | Note |
| | Environmental | | or | | | |
| | compartment | | | | | |
| | Environment - | | PNEC | 140,9 | mg/l | |
| | freshwater | | | | | |
| | Environment - marine | | PNEC | 140,9 | mg/l | |
| | Environment - | | PNEC | 552 | mg/kg | |
| | sediment, freshwater | | | | dw | |
| | Environment - | | PNEC | 552 | mg/kg | |
| | sediment, marine | | | | dw | |
| | Environment - soil | | PNEC | 28 | mg/kg | |
| | | | | | dw | |
| | Environment - | | PNEC | 2251 | mg/l | |
| | sewage treatment | | | | _ | |
| | plant | | | | | |
| | Environment - water, | | PNEC | 140,9 | mg/l | |
| | sporadic | | | | - | |
| | (intermittent) release | | | | | |
| | Environment - oral | | PNEC | 160 | mg/kg | |
| | (animal feed) | | | | feed | |
| Consumer | Human - dermal | Long term, | DNEL | 319 | mg/kg | |
| | | systemic effects | | | bw/day | |



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| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 89 | mg/m3 |
|---------------------|--------------------|--------------------------------|------|-----|-----------------|
| Consumer | Human - oral | Long term, systemic effects | DNEL | 26 | mg/kg bw/day |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 888 | mg/kg bw/day |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 500 | mg/m3 |

| Barium sulphate | | | | | | |
|---------------------|----------------------|------------------|----------|-------|----------|------|
| Area of application | Exposure route / | Effect on health | Descript | Value | Unit | Note |
| | Environmental | | or | | | |
| | compartment | | | | | |
| | Environment - | | PNEC | 0,115 | mg/l | |
| | freshwater | | | | | |
| | Environment - | | PNEC | 600,4 | mg/kg | |
| | sediment, freshwater | | | | dw | |
| | Environment - | | PNEC | 62,2 | mg/l | |
| | sewage treatment | | | | | |
| | plant | | | | | |
| | Environment - soil | | PNEC | 207,7 | mg/kg | |
| | | | | | dw | |
| Consumer | Human - oral | Long term, | DNEL | 13000 | mg/kg | |
| | | systemic effects | | | body | |
| | | | | | weight/d | |
| | | | | | ay | |
| Consumer | Human - inhalation | Long term, | DNEL | 10 | mg/m3 | |
| | | systemic effects | | | | |
| Workers / employees | Human - inhalation | Long term, | DNEL | 10 | mg/m3 | |
| | | systemic effects | | | | |
| Workers / employees | Human - inhalation | Long term, local | DNEL | 10 | mg/m3 | |
| | | effects | | | | |

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

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

⁽⁸⁾ = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

^{** =} The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.



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8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: 0,7 Permeation time (penetration time) in minutes: >= 60 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: If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white 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.



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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

| 5.1 Information on basic physical and chemical prop | ci lics |
|---|--|
| Physical state: | Aerosol. Active substance: liquid. |
| Colour: | According to specification |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | <0 °C |
| Flammability: | Does not apply to aerosols. |
| Lower explosion limit: | 1,7 Vol-% |
| Upper explosion limit: | 11,5 Vol-% |
| Flash point: | -97 °C |
| Auto-ignition temperature: | 460 °C |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | Mixture is non-soluble (in water). |
| Kinematic viscosity: | <=20,5 mm2/s (40°C, Active substance) |
| Solubility: | Insoluble |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | 8300 hPa (20°C) |
| Density and/or relative density: | 0,93 g/ml (Active substance) |
| Density and/or relative density: | 0,67 g/cm3 (20°C) |
| Relative vapour density: | Does not apply to aerosols. |
| Particle characteristics: | Does not apply to aerosols. |
| 9.2 Other information | |
| Explosives: | Product is not explosive. When using: development of |
| | explosive vapour/air mixture possible. |
| Oxidising liquids: | No |
| Solvents content: | 57,3 % (Organic solvents) |
| | |

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.



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10.4 Conditions to avoid

Heating, open flame, ignition sources
Pressure increase will result in danger of bursting. **10.5 Incompatible materials**Avoid contact with strong alkalis.
Avoid contact with strong oxidizing agents.
Avoid contact with strong acids. **10.6 Hazardous decomposition products**No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

| Marking Spray Yellow 5 | 500 ml | | | | | | | |
|---|--------------|-------|------|----------|-------------|--------|--|--|
| Art.: 9094955 | | | | | | | | |
| Toxicity / effect | Endpoi nt | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | | | | | | n.d.a. | | |
| Acute toxicity, by dermal route: | | | | | | n.d.a. | | |
| Acute toxicity, by inhalation: | | | | | | n.d.a. | | |
| Skin corrosion/irritation: | | | | | | n.d.a. | | |
| Serious eye damage/irritation: | | | | | | n.d.a. | | |
| Respiratory or skin sensitisation: | | | | | | n.d.a. | | |
| Germ cell mutagenicity: | | | | | | n.d.a. | | |
| Carcinogenicity: | | | | | | n.d.a. | | |
| Reproductive toxicity: | | | | | | n.d.a. | | |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. | | |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. | | |
| Aspiration hazard: | | | | | | n.d.a. | | |
| Symptoms: | | | | | | n.d.a. | | |

| Ethyl acetate | | | | | | |
|-------------------------|--------|--------|---------|----------|-----------------|---------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | 4934 | mg/kg | Rabbit | OECD 401 (Acute | |
| route: | | | | | Oral Toxicity) | |
| Acute toxicity, by | LD50 | >20000 | mg/kg | Rabbit | | |
| dermal route: | | | | | | |
| Acute toxicity, by | LC0 | 29,3 | mg/l/4h | Rat | | Vapours |
| inhalation: | | | | | | |



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| Skin corrosion/irritation: | 24 | h | Rabbit | | Not irritant, |
|----------------------------|----|---|------------|---------------------|---------------|
| | | | | | Repeated |
| | | | | | exposure |
| | | | | | may cause |
| | | | | | skin dryness |
| | | | | | or cracking. |
| Serious eye | | | Rabbit | OECD 405 (Acute | Eye Irrit. 2 |
| damage/irritation: | | | | Eye | |
| | | | | Irritation/Corrosio | |
| | | | | n) | |
| Respiratory or skin | | | Guinea pig | OECD 406 (Skin | No (skin |
| sensitisation: | | | | Sensitisation) | contact) |
| Germ cell mutagenicity: | | | Salmonella | OECD 471 | Negative |
| | | | typhimuri | (Bacterial Reverse | |
| | | | um | Mutation Test) | |
| Germ cell mutagenicity: | | | Mammalia | OECD 473 (In | Negative |
| | | | n | Vitro Mammalian | |
| | | | | Chromosome | |
| | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | Mammalia | OECD 474 | Negative |
| | | | n | (Mammalian | |
| | | | | Erythrocyte | |
| | | | | Micronucleus | |
| | | | | Test) | |
| Carcinogenicity: | | | | | Negative |
| Reproductive toxicity: | | | | | Negative |
| Aspiration hazard: | | | | | No |



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| Cumptoma | | | | | | lack of |
|-----------------------|-------|-------|-------|-----|-----------------|------------------------|
| Symptoms: | | | | | | |
| | | | | | | appetite, breathing |
| | | | | | | difficulties, |
| | | | | | | drowsiness, |
| | | | | | | unconsciousn |
| | | | | | | |
| | | | | | | ess, drop in blood |
| | | | | | | pressure, |
| | | | | | | cornea |
| | | | | | | opacity, |
| | | | | | | coughing, |
| | | | | | | headaches, |
| | | | | | | gastrointestin |
| | | | | | | al |
| | | | | | | disturbances, |
| | | | | | | intoxication, |
| | | | | | | drowsiness, |
| | | | | | | mucous |
| | | | | | | membrane |
| | | | | | | irritation, |
| | | | | | | dizziness, |
| | | | | | | salivation, |
| | | | | | | nausea and |
| | | | | | | vomiting., |
| | | | | | | fatigue |
| Specific target organ | NOAEL | 900 | mg/kg | Rat | Regulation (EC) | U |
| toxicity - repeated | | | bw/d | | 440/2008 B.26 | |
| exposure (STOT-RE), | | | | | (SUB-CHRONIC | |
| oral: | | | | | ORAL | |
| | | | | | TOXICITY TEST | |
| | | | | | REPEATED | |
| | | | | | DOSE 90 - DAY | |
| | | | | | (RODENTS)) | |
| Specific target organ | NOAEL | 0,002 | mg/kg | Rat | Regulation (EC) | |
| toxicity - repeated | | | | | 440/2008 B.29 | |
| exposure (STOT-RE), | | | | | (SUB-CHRONIC | |
| inhalat.: | | | | | INHALATION | |
| | | | | | TOXICITY | |
| | | | | | STUDY 90-DAY | |
| | | | | | REPEATED | |
| | | | | | (RODENTS)) | |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm) | | | | | | | | |
|--|------------|-------|-------|----------|---|-------|--|--|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes | | |
| Acute toxicity, by oral route: | nt LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) | | | |



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| Acute toxicity, by | LD50 | >5000 | mg/kg | Rabbit | | |
|----------------------------|------|-------|---------|------------|---------------------|---------------|
| dermal route: | | | | | | |
| Acute toxicity, by | LD50 | >6,8 | mg/l/4h | Rat | | |
| inhalation: | | | | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Serious eye | | | | Rabbit | OECD 405 (Acute | Not irritant, |
| damage/irritation: | | | | | Eye | Mechanical |
| | | | | | Irritation/Corrosio | irritation |
| | | | | | n) | possible. |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | Not |
| sensitisation: | | | | | Sensitisation - | sensitizising |
| | | | | | Local Lymph | |
| | | | | | Node Assay) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin |
| sensitisation: | | | | | Sensitisation) | contact) |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 | Negative |
| | | | | | (Mammalian | |
| | | | | | Erythrocyte | |
| | | | | | Micronucleus | |
| | | | | | Test) | |
| Germ cell mutagenicity: | | | | Mammalia | OECD 473 (In | Negative |
| | | | | n | Vitro Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Salmonella | (Ames-Test) | Negative |
| | | | | typhimuri | | |
| | | | | um | | |
| Germ cell mutagenicity: | | | | | OECD 476 (In | Negative |
| | | | | | Vitro Mammalian | |
| | | | | | Cell Gene | |
| | | | | | Mutation Test) | |
| Germ cell mutagenicity: | | | | | OECD 471 | Negative |
| | | | | | (Bacterial Reverse | |
| | | | | | Mutation Test) | |
| Reproductive toxicity | | | | Rat | OECD 414 | No |
| (Developmental | | | | | (Prenatal | indications |
| toxicity): | | | | | Developmental | of such an |
| | | | | | Toxicity Study) | effect. |
| Specific target organ | | | | | | Not irritant |
| toxicity - single | | | | | | (respiratory |
| exposure (STOT-SE): | | | | | | tract). |



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| Symptoms: | | | | | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |
|--|-------|------|-------------|-----|--|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | mg/kg/ d | Rat | 90d |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat | 90d |

| Hydrocarbons, C7-C9, n Toxicity / effect | | Value | Unit | Organism | Test method | Notes |
|---|------------|--------|---------|---------------------------------------|---------------------|---------------|
| Toxicity / effect | Endpoi | value | Umi | Organism | i est method | INOLES |
| Acute toxicity, by oral | nt LD50 | >5000 | | Rat | OECD 401 (Acute | |
| • • | LD30 | >3000 | mg/kg | Rat | | |
| route: | LD50 | . 2000 | | D 11'4 | Oral Toxicity) | |
| Acute toxicity, by | LD50 | >2800 | mg/kg | Rabbit | OECD 402 (Acute | |
| dermal route: | | •••• | | 5 111 | Dermal Toxicity) | |
| Acute toxicity, by | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute | |
| dermal route: | | | | | Dermal Toxicity) | |
| Acute toxicity, by | LC50 | >23,3 | mg/l/4h | Rat | OECD 403 (Acute | Vapours |
| inhalation: | | | | | Inhalation | |
| | | | | | Toxicity) | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Skin corrosion/irritation: | | | | | | Repeated |
| | | | | | | exposure |
| | | | | | | may cause |
| | | | | | | skin dryness |
| | | | | | | or cracking. |
| Serious eye | | | | Rabbit | OECD 405 (Acute | Not irritant |
| damage/irritation: | | | | | Eye | |
| e | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | Not |
| sensitisation: | | | | · · · · · · · · · · · · · · · · · · · | Sensitisation) | sensitizising |
| Germ cell mutagenicity: | | | | | OECD 473 (In | Negative |
| | | | | | Vitro Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |



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| Germ cell mutagenicity: | | 2000 | mg/kg | Mouse | OECD 474 | Negative |
|-------------------------|-------|------|-------|-------|--------------------|----------------|
| | | | | | (Mammalian | |
| | | | | | Erythrocyte | |
| | | | | | Micronucleus | |
| | | | | | Test) | |
| Germ cell mutagenicity: | | | | | OECD 471 | Negative |
| | | | | | (Bacterial Reverse | |
| | | | | | Mutation Test) | |
| Reproductive toxicity: | | | | | OECD 414 | Negative |
| | | | | | (Prenatal | |
| | | | | | Developmental | |
| | | | | | Toxicity Study) | |
| Reproductive toxicity: | LOAEL | 9000 | ppm | Rat | OECD 416 (Two- | Negative |
| | | | | | generation | |
| | | | | | Reproduction | |
| | | | | | Toxicity Study) | |
| Specific target organ | | | | | <u> </u> | STOT SE 3, |
| toxicity - single | | | | | | H336 |
| exposure (STOT-SE): | | | | | | |
| Specific target organ | | | | | OECD 413 | Negative |
| toxicity - repeated | | | | | (Subchronic | 0 |
| exposure (STOT-RE): | | | | | Inhalation | |
| | | | | | Toxicity - 90-Day | |
| | | | | | Study) | |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | drowsiness, |
| • | | | | | | unconsciousn |
| | | | | | | ess, |
| | | | | | | heart/circulat |
| | | | | | | ory |
| | | | | | | disorders, |
| | | | | | | headaches, |
| | | | | | | cramps, |
| | | | | | | drowsiness, |
| | | | | | | mucous |
| | | | | | | membrane |
| | | | | | | irritation, |
| | | | | | | dizziness, |
| | | | | | | nausea and |
| | | | | | | vomiting. |
| | | | | 1 | | vonnung. |

| Propan-2-ol | | | | | | |
|-------------------------|--------|-----------|---------|----------|------------------|---------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | 4570-5840 | mg/kg | Rat | OECD 401 (Acute | |
| route: | | | | | Oral Toxicity) | |
| Acute toxicity, by | LD50 | 12800- | mg/kg | Rabbit | OECD 402 (Acute | |
| dermal route: | | 13900 | | | Dermal Toxicity) | |
| Acute toxicity, by | LC50 | > 25 | mg/l/6h | Rat | OECD 403 (Acute | Vapours |
| inhalation: | | | | | Inhalation | |
| | | | | | Toxicity) | |



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| Acute toxicity, by inhalation: | LC50 | 46600 | mg/l/4h | Rat | | Aerosol |
|---|------|-------|---------|-------------------------------|--|--|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimuri um | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimuri um | (Ames-Test) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | STOT SE 3, H336 |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | Target organ(s): liver No |
| Aspiration hazard: Symptoms: | | | | | | breathing difficulties, unconsciousn ess, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes |



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| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
|--|-------|------|-------|-----|--|-----------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 5000 | ppm | Rat | | Vapours (OECD 451) |

| Propane | | | 1 | | | 1 |
|---|--------------|--------|-------------|-------------------------------|--|--|
| Toxicity / effect | Endpoi nt | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by | LC50 | 658 | mg/l/4h | Rat | | |
| inhalation: 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 typhimuri um | 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/Dev elopm. Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | breathing difficulties, unconscious ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |



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| 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/Dev elopm. 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/Dev elopm. Tox. Screening Test) |

| Barium sulphate | | | | | | |
|----------------------------|--------|--------|-------|----------|---------------------|--------------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | >15000 | mg/kg | Rat | IUCLID Chem. | |
| route: | | | | | Data Sheet (ESIS) | |
| Acute toxicity, by | LD50 | >2000 | | Rat | | Analogous |
| dermal route: | | | | | | conclusion |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Serious eye | | | | Rabbit | OECD 405 (Acute | Not irritant |
| damage/irritation: | | | | | Eye | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Respiratory or skin | | | | Mouse | OECD 429 (Skin | No (skin |
| sensitisation: | | | | | Sensitisation - | contact), |
| | | | | | Local Lymph | Analogous |
| | | | | | Node Assay) | conclusion |
| Germ cell mutagenicity: | | | | | | Negative |

| Talc | | | | | | |
|----------------------------|--------|-------|-------|----------|---------------------|--------------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | >5000 | mg/kg | Rat | | |
| route: | | | | | | |
| Acute toxicity, by | LD50 | >2000 | mg/kg | Rat | | |
| dermal route: | | | | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Skin corrosion/irritation: | | | | | | Not irritant |



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| Respiratory or skin sensitisation: | | | Not sensitizising |
|------------------------------------|-----|--------------------|----------------------|
| Germ cell mutagenicity: | | OECD 471 | Negative |
| | | (Bacterial Reverse | |
| | | Mutation Test) | |
| Carcinogenicity: | | | Negative |
| Reproductive toxicity: | Rat | | Negative |
| Symptoms: | | | mucous |
| | | | membrane |
| | | | irritation |

| Isobutane | | | | | | |
|--|--------------|--------|-------------|-------------------------------|--|---|
| Toxicity / effect | Endpoi nt | 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 typhimuri um | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconscious ess, frostbite, headaches, cramps, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 21,394 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test) | |

11.2. Information on other hazards

| Marking Spray Yellow 5 Art.: 9094955 | 500 ml | | | | | |
|---|--------|-------|------|----------|-------------|-----------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Endocrine disrupting | | | | | | Does not |
| properties: | | | | | | apply to |
| | | | | | | mixtures. |



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| Other information: | No other |
|--------------------|--------------|
| | relevant |
| | information |
| | available on |
| | adverse |
| | effects on |
| | health. |

SECTION 12: Ecological information

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

| Marking Spray Ye Art.: 9094955 | | | | | | | | | | | |
|-----------------------------------|----------|------|-------|------|----------|-------------|----------------------|--|--|--|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes | | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. | | | | |
| fish: | | | | | | | | | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. | | | | |
| daphnia: | | | | | | | | | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. | | | | |
| algae: | | | | | | | | | | | |
| 12.2. Persistence | | | | | | | n.d.a. | | | | |
| and degradability: | | | | | | | | | | | |
| 12.3. | | | | | | | n.d.a. | | | | |
| Bioaccumulative | | | | | | | | | | | |
| potential: | | | | | | | | | | | |
| 12.4. Mobility in | | | | | | | n.d.a. | | | | |
| soil: | | | | | | | | | | | |
| 12.5. Results of | | | | | | | n.d.a. | | | | |
| PBT and vPvB | | | | | | | | | | | |
| assessment 12.6. Endocrine | | | | | | | Description | | | | |
| disrupting | | | | | | | Does not apply to | | | | |
| properties: | | | | | | | mixtures. | | | | |
| 12.7. Other | | | | | | | No | | | | |
| adverse effects: | | | | | | | information | | | | |
| duverse effects. | | | | | | | available on | | | | |
| | | | | | | | other | | | | |
| | | | | | | | adverse | | | | |
| | | | | | | | effects on | | | | |
| | | | | | | | the | | | | |
| | | | | | | | environment. | | | | |
| Other information: | | | | | | | DOC- | | | | |
| | | | | | | | elimination | | | | |
| | | | | | | | degree(comp | | | | |
| | | | | | | | lexing | | | | |
| | | | | | | | organic | | | | |
| | | | | | | | substance)>= | | | | |
| | | | | | | | 80%/28d: | | | | |
| | | | | | | | n.a. | | | | |



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| Ethyl acetate | | | | | | | |
|-------------------------------|----------|------|-------|--------|------------------|------------------|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to | EC10 | 18h | 2900 | mg/l | Pseudomonas | | |
| bacteria: | | | | | putida | | |
| 12.1. Toxicity to | LC50 | 48h | 333 | mg/l | Leuciscus idus | | |
| fish: | | | | | | | |
| 12.1. Toxicity to | NOEC/NO | 32d | >9,65 | mg/l | Pimephales | | |
| fish: | EL | 0.01 | 220 | /1 | promelas | | |
| 12.1. Toxicity to | LC50 | 96h | 230 | mg/l | Pimephales | | |
| fish: 12.1. Toxicity to | EC50 | 48h | 610 | | promelas | DIN 38412 | |
| • | EC30 | 480 | 010 | mg/l | Daphnia | T.11 | |
| daphnia: 12.1. Toxicity to | NOEC/NO | 21d | 2,4 | mg/l | magna Daphnia | OECD 211 | |
| daphnia: | EL | 210 | 2,4 | mg/1 | magna | (Daphnia | |
| Japinna. | | | | | magna | magna | |
| | | | | | | Reproduction | |
| | | | | | | Test) | |
| 12.1. Toxicity to | EC50 | 48h | 165 | mg/l | | 1050) | Daphnia |
| daphnia: | | | | 8,- | | | cucullata |
| 12.1. Toxicity to | EC50 | 48h | 5600 | mg/l | Desmodesmus | DIN 38412 | |
| algae: | | | | U | subspicatus | T.9 | |
| 12.1. Toxicity to | NOEC/NO | 96h | 2000 | mg/l | Scenedesmus | OECD 201 | |
| algae: | EL | | | - | subspicatus | (Alga, | |
| | | | | | | Growth | |
| | | | | | | Inhibition | |
| | | | | | | Test) | |
| 12.1. Toxicity to | EC50 | 96h | >2000 | mg/l | Pseudokirchne | OECD 201 | |
| algae: | | | | | riella | (Alga, | |
| | | | | | subcapitata | Growth | |
| | | | | | | Inhibition | |
| | NOFGNIO | | 100 | 19 | | Test) | |
| 12.1. Toxicity to | NOEC/NO | 72h | >100 | mg/l | Desmodesmus | OECD 201 | |
| algae: | EL | | | | subspicatus | (Alga, Growth | |
| | | | | | | Inhibition | |
| | | | | | | | |
| 12.1. Toxicity to | EC50 | 48h | 3300 | mg/l | Scenedesmus | Test) | |
| algae: | 10.50 | +011 | 3500 | 111g/1 | subspicatus | | |
| 12.2. Persistence | | 20d | 79 | % | subspicatus | OECD 301 D | Readily |
| and degradability: | | 200 | | 70 | | (Ready | biodegradabl |
| and degraduonity. | | | | | | Biodegradabil | e |
| | | | | | | ity - Closed | |
| | | | | | | Bottle Test) | |
| 12.3. | BCF | 72h | 30 | | | | (Fish) |
| Bioaccumulative | | | | | | | |
| potential: | | | | | | | |



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| 12.3. | Log Kow | | 0,68 | | | OECD 107 | Bioaccumula |
|-------------------|-----------|-------|-------|-------|---------------|-----------------|-------------|
| Bioaccumulative | | | | | | (Partition | tion is |
| potential: | | | | | | Coefficient (n- | unlikely |
| | | | | | | octanol/water) | (LogPow < |
| | | | | | | - Shake | 1).25 °C |
| | | | | | | Flask Method) | |
| 12.4. Mobility in | H (Henry) | | 0,000 | atm*m | | | |
| soil: | | | 12 | 3/mol | | | |
| 12.4. Mobility in | Koc | | 3 | | | | |
| soil: | | | | | | | |
| 12.5. Results of | | | | | | | No PBT |
| PBT and vPvB | | | | | | | substance, |
| assessment | | | | | | | No vPvB |
| | | | | | | | substance |
| Toxicity to | EC10 | 16h | 2900 | mg/l | Escherichia | | |
| bacteria: | | | | | coli | | |
| Toxicity to | EC50 | 15min | 5870 | mg/l | Photobacteriu | | |
| bacteria: | | | | | m | | |
| | | | | | phosphoreum | | |

| Titanium dioxide (| in powder fo | rm conta | ining 1 % | or mor | e of particles with | aerodynamic di | ameter <= 10 |
|--------------------|--------------|----------|-----------|--------|---------------------|----------------|---------------|
| μm) | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to | LC50 | 96h | >100 | mg/l | Oncorhynchus | OECD 203 | |
| fish: | | | | _ | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | LC50 | 48h | >100 | mg/l | Daphnia | OECD 202 | |
| daphnia: | | | | _ | magna | (Daphnia sp. | |
| - | | | | | - | Acute | |
| | | | | | | Immobilisatio | |
| | | | | | | n Test) | |
| 12.1. Toxicity to | EC50 | 72h | 16 | mg/l | Pseudokirchne | U.S. EPA- | |
| algae: | | | | _ | riella | 600/9-78-018 | |
| - | | | | | subcapitata | | |
| 12.2. Persistence | | | | | | | Not relevant |
| and degradability: | | | | | | | for inorganic |
| | | | | | | | substances. |
| 12.3. | BCF | 42d | 9,6 | | | | Not to be |
| Bioaccumulative | | | | | | | expected |
| potential: | | | | | | | |
| 12.3. | BCF | 14d | 19- | | | | Oncorhynchu |
| Bioaccumulative | | | 352 | | | | s mykiss |
| potential: | | | | | | | |
| 12.4. Mobility in | | | | | | | Negative |
| soil: | | | | | | | |
| 12.5. Results of | | | | | | | No PBT |
| PBT and vPvB | | | | | | | substance, |
| assessment | | | | | | | No vPvB |
| | | | | | | | substance |
| Toxicity to | | | >5000 | mg/l | Escherichia | | |
| bacteria: | | | | | coli | | |



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| Toxicity to | LC0 | 24h | >1000 | mg/l | Pseudomonas | |
|-------------------|---------|-----|-------|-------|-------------|--------------|
| bacteria: | | | 0 | | fluorescens | |
| Toxicity to | NOEC/NO | | >1000 | mg/kg | Eisenia | |
| annelids: | EL | | | | foetida | |
| Water solubility: | | | | | | Insoluble20° |
| | | | | | | С |

| Hydrocarbons, C7 | | | | | O | T = = 4 = = - 4 = - 3 | Natar |
|--------------------|----------|------|--------|------|---------------|-----------------------|---------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.7. Other | | | | | | | Product |
| adverse effects: | | | | | | | floats on the |
| | | | | | | | water |
| 10.0 | | | | | | | surface. |
| 12.3. | | | | | | | Not to be |
| Bioaccumulative | | | | | | | expected(ev |
| potential: | NOFIE | 201 | 0.774 | | | | poration) |
| 12.1. Toxicity to | NOELR | 28d | 0,574 | | Oncorhynchus | | |
| fish: | | | | | mykiss | | |
| 12.1. Toxicity to | LC50 | 96h | 3 - 10 | mg/l | Oncorhynchus | OECD 203 | |
| fish: | | | | | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | EL50 | 48h | 4,6 - | mg/l | Daphnia | OECD 202 | |
| daphnia: | | | 10 | | magna | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisatio | |
| | | | | | | n Test) | |
| 12.1. Toxicity to | NOELR | 21d | 1 -1,6 | mg/l | Daphnia | OECD 211 | |
| daphnia: | | | | | magna | (Daphnia | |
| | | | | | | magna | |
| | | | | | | Reproduction | |
| | | | | | | Test) | |
| 12.1. Toxicity to | NOEC/NO | 72h | 10 | mg/l | Pseudokirchne | OECD 201 | |
| algae: | EL | | | | riella | (Alga, | |
| | | | | | subcapitata | Growth | |
| | | | | | | Inhibition | |
| | | | | | | Test) | |
| 12.1. Toxicity to | EL50 | 72h | 10 | mg/l | Pseudokirchne | OECD 201 | |
| algae: | | | | | riella | (Alga, | |
| | | | | | subcapitata | Growth | |
| | | | | | | Inhibition | |
| | | | | | | Test) | |
| 12.2. Persistence | | 28d | 98 | % | | OECD 301 F | Completely |
| and degradability: | | | | | | (Ready | biodegradab |
| | | | | | | Biodegradabil | e. |
| | | | | | | ity - | |
| | | | | | | Manometric | |
| | | | | | | Respirometry | |
| | | | | | | Test) | |



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| 12.5. Results of PBT and vPvB assessment | | | | | No PBT substance, No vPvB substance |
|--|------|-----|-------|------|--|
| Toxicity to bacteria: | EL50 | 48h | 11,14 | mg/l | calculated value |

| Propan-2-ol | | | | | | | |
|--------------------|----------|------|-------|------|----------------|-----------------|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. | BCF | | 3,2 | | | | Low |
| Bioaccumulative | | | | | | | |
| potential: | | | | | | | |
| 12.1. Toxicity to | LC50 | 96h | >100 | mg/l | Leuciscus idus | | |
| fish: | | | | | | | |
| 12.1. Toxicity to | LC50 | 96h | 1400 | mg/l | Lepomis | | |
| fish: | | | | | macrochirus | | |
| 12.1. Toxicity to | EC50 | 48h | 2285 | mg/l | Daphnia | | |
| daphnia: | | | | | magna | | |
| 12.1. Toxicity to | EC50 | 16d | 141 | mg/l | Daphnia | | |
| daphnia: | | | | | magna | | |
| 12.1. Toxicity to | EC50 | 72h | >100 | mg/l | Desmodesmus | | |
| algae: | | | | | subspicatus | | |
| 12.2. Persistence | | 21d | 95 | % | | OECD 301 E | Readily |
| and degradability: | | | | | | (Ready | biodegradabl |
| | | | | | | Biodegradabil | e |
| | | | | | | ity - Modified | |
| | | | | | | OECD | |
| | | | | | | Screening | |
| | | | | | | Test) | |
| 12.2. Persistence | | | 99,9 | % | | OECD 303 A | Readily |
| and degradability: | | | | | | (Simulation | biodegradabl |
| | | | | | | Test - | e |
| | | | | | | Aerobic | |
| | | | | | | Sewage | |
| | | | | | | Treatment - | |
| | | | | | | Activated | |
| | | | | | | Sludge Units) | |
| 12.3. | Log Pow | | 0,05 | | | OECD 107 | Slight |
| Bioaccumulative | _ | | | | | (Partition | |
| potential: | | | | | | Coefficient (n- | |
| - | | | | | | octanol/water) | |
| | | | | | | - Shake | |
| | | | | | | Flask Method) | |
| 12.4. Mobility in | Koc | | 1,1 | | | | Expert |
| soil: | | | | | | | judgement |
| 12.5. Results of | | | | | | | No PBT |
| PBT and vPvB | | | | | | | substance, |
| assessment | | | | | | | No vPvB |
| | | | | | | | substance |
| Toxicity to | EC50 | | >1000 | mg/l | activated | | |
| bacteria: | | | | | sludge | | |



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| Toxicity to | EC10 | 16h | 1050 | mg/l | Pseudomonas | |
|--------------------|------|-----|------|------|-------------|------------|
| bacteria: | | | | | putida | |
| Other information: | ThOD | | 2,4 | g/g | | |
| Other information: | BOD5 | | 53 | % | | |
| Other information: | COD | | 96 | % | | References |
| Other information: | COD | | 2,4 | g/g | | |
| Other information: | BOD | | 1171 | mg/g | | |

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

| Barium sulphate | | | | | | | |
|-------------------|----------|------|-------|------|---------------|----------------|------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to | LC50 | 96h | >3,5 | mg/l | Brachydanio | OECD 203 | Analogous |
| fish: | | | | | rerio | (Fish, Acute | conclusion |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | NOEC/NO | 33d | >1,26 | mg/l | Brachydanio | OECD 210 | Analogous |
| fish: | EL | | | | rerio | (Fish, Early- | conclusion |
| | | | | | | Life Stage | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | NOEC/NO | 21d | 2,9 | mg/l | Daphnia | OECD 211 | Analogous |
| daphnia: | EL | | | | magna | (Daphnia | conclusion |
| | | | | | | magna | |
| | | | | | | Reproduction | |
| | | | | | | Test) | |
| 12.1. Toxicity to | EC50 | 48h | 14,5 | mg/l | Daphnia | OECD 202 | Analogous |
| daphnia: | | | | | magna | (Daphnia sp. | conclusion |
| | | | | | | Acute | |
| | | | | | | Immobilisatio | |
| | | | | | | n Test) | |
| 12.1. Toxicity to | ErC50 | 72h | >1,15 | mg/l | Pseudokirchne | OECD 201 | Analogous |
| algae: | | | | | riella | (Alga, | conclusion |
| | | | | | subcapitata | Growth | |
| | | | | | | Inhibition | |
| | | | | | | Test) | |



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| 12.1. Toxicity to | NOEC/NO | 72h | >1,15 | mg/l | Pseudokirchne | OECD 201 | Analogous |
|--------------------|---------|-----|-------|------|---------------|------------|--------------|
| algae: | EL | | | - | riella | (Alga, | conclusion |
| | | | | | subcapitata | Growth | |
| | | | | | 1 | Inhibition | |
| | | | | | | Test) | |
| 12.2. Persistence | | | | | | | Not |
| and degradability: | | | | | | | biodegradabl |
| | | | | | | | e, Inorganic |
| | | | | | | | products |
| | | | | | | | cannot be |
| | | | | | | | eliminated |
| | | | | | | | from water |
| | | | | | | | through |
| | | | | | | | biological |
| | | | | | | | purification |
| | | | | | | | methods. |
| 12.5. Results of | | | | | | | n.a. |
| PBT and vPvB | | | | | | | |
| assessment | | | | | | | |

| Talc | | | | | | | |
|--------------------|----------|------|-------|------|----------|-------------|---------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Water solubility: | | | <0,1 | % | | | |
| 12.2. Persistence | | | | | | | Not relevant |
| and degradability: | | | | | | | for inorganic |
| | | | | | | | substances. |
| 12.5. Results of | | | | | | | No PBT |
| PBT and vPvB | | | | | | | substance, |
| assessment | | | | | | | No vPvB |
| | | | | | | | substance |

| Isobutane | | | | | | | |
|---|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.3. Bioaccumulative potential: | | | | | | | A notable biological accumulation potential is not to be expected (LogPow 1- 3). |
| 12.1. Toxicity to fish: | LC50 | 96h | 27,98 | mg/l | | | |
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71 | mg/l | | | |
| 12.2. Persistence and degradability: | | | | | | | Readily biodegradabl e |



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| 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.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

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

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

SECTION 14: Transport information

| General statements | |
|-------------------------------------|----------------|
| 14.1. UN number or ID number: | 1950 |
| Transport by road/by rail (ADR/RID) | |
| 14.2. UN proper shipping name: | |
| UN 1950 AEROSOLS | |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| Classification code: | 5F |
| LQ: | 1 L |
| 14.5. Environmental hazards: | Not applicable |
| Tunnel restriction code: | D |
| Transport by sea (IMDG-code) | |
| 14.2. UN proper shipping name: | |
| AEROSOLS | |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| EmS: | F-D, S-U |
| Marine Pollutant: | n.a |
| 14.5. Environmental hazards: | Not applicable |



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Transport by air (IATA)

| 14.2. UN proper shipping name: | |
|--|----------------------|
| Aerosols, flammable | |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| 14.5. Environmental hazards: | Not applicable |
| 14.6. Special precautions for user | |
| Persons employed in transporting dangerous goods mu | ist be trained. |
| All persons involved in transporting must observe safe | ty regulations. |
| Precautions must be taken to prevent damage. | |
| 14.7. Maritime transport in bulk according to IMO | instruments |
| Freighted as packaged goods rather than in bulk, there | fore not applicable. |
| Minimum amount regulations have not been taken into | account. |
| Danger code and packing code on request. | |
| Comply with special provisions. | |

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

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 | Qualifying quantity |
|-------------------|------------------|----------------------------|---------------------------|
| | | (tonnes) of dangerous | (tonnes) of dangerous |
| | | substances as referred to | substances as referred to |
| | | in Article $3(10)$ for the | in Article 3(10) for the |
| | | application of - Lower- | application of - Upper- |
| | | tier requirements | tier 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:

| | (beveso in), runex | 1,1 at 2 This produce | contains the substance | is instea below. |
|----------|----------------------|-----------------------|------------------------|---------------------|
| Entry Nr | Dangerous | Notes to Annex I | Qualifying quantity | Qualifying quantity |
| | substances | | (tonnes) for the | (tonnes) for the |
| | | | application of - | application of - |
| | | | Lower-tier | Upper-tier |
| | | | requirements | requirements |
| 18 | Liquefied | 19 | 50 | 200 |
| | flammable gases, | | | |
| | Category 1 or 2 | | | |
| | (including LPG) | | | |
| | and natural gas | | | |

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



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Directive 2010/75/EU (VOC):

567,6 g/l

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 1-16 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) | Evaluation method used | |
|---|---|--|
| No. 1272/2008 (CLP) | | |
| 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. | |
| Aerosol 1, H229 | Classification based on the form or physical state. | |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H351 Suspected of causing cancer by inhalation.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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 Carc. — Carcinogenicity Asp. Tox. — Aspiration hazard

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.



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ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approximately approx. Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council body weight hw CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer



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- Fax. Fax number gen. general
- GHS Globally Harmonized System of Classification and Labelling of Chemicals
- GWP Global warming potential
- Koc Adsorption coefficient of organic carbon in the soil
- Kow octanol-water partition coefficient
- IARC International Agency for Research on Cancer
- IATA International Air Transport Association
- IBC (Code) International Bulk Chemical (Code)
- IMDG-code International Maritime Code for Dangerous Goods
- incl. including, inclusive
- IUCLID International Uniform Chemical Information Database
- IUPACInternational Union for Pure Applied Chemistry
- LC50 Lethal Concentration to 50 % of a test population
- LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
- Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
- Log Kow, Log Pow Logarithm of octanol-water partition coefficient
- LQ Limited Quantities
- MARPOL International Convention for the Prevention of Marine Pollution from Ships
- n.a. not applicable
- n.av. not available
- n.c. not checked
- n.d.a. no data available
- NIOSH National Institute for Occupational Safety and Health (USA)
- NLP No-longer-Polymer
- NOEC, NOEL No Observed Effect Concentration/Level
- OECD Organisation for Economic Co-operation and Development
- org. organic
- OSHA Occupational Safety and Health Administration (USA)
- PBT persistent, bioaccumulative and toxic
- PE Polyethylene
- PNEC Predicted No Effect Concentration
- ppm parts per million
- PVC Polyvinylchloride
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
- REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
- RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
- SVHC Substances of Very High Concern
- Tel. Telephone
- 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
- wwt wet weight

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



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No responsibility.