



Page 1 of 33
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 29.04.2021 / 0017
Replacing version dated / version: 12.11.2020 / 0016
Valid from: 29.04.2021
PDF print date: 02.06.2021
Marking Spray plus Yellow 500 ml
Art.: 9094958

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 plus Yellow 500 ml
Art.: 9094958

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)

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. |



Page 2 of 33
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 29.04.2021 / 0017
Replacing version dated / version: 12.11.2020 / 0016
Valid from: 29.04.2021
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Marking Spray plus Yellow 500 ml
Art.: 9094958

2.2 Label elements

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



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 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 %).

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 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 205-500-4 |



Page 3 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | |
|---|---|
| CAS | 141-78-6 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (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 (CLP), M-factors | Carc. 2, H351 (as inhalation) |

| | |
|---|---|
| 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 (CLP), M-factors | Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 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 (CLP), M-factors | Flam. Liq. 2, H225 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

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation



Page 4 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

Remove person from danger area.

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

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

Skin contact

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

Eye contact

Remove contact lenses.

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

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:

drying 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

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.



Page 5 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

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.

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 in a well-ventilated place.

Store cool.

Ⓢ

Page 6 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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/m³

| | | | | |
|---|---|--|----------------|----------|
| Ⓢ | Chemical Name | Ethyl acetate | Content | %:10-<20 |
| | WEL-TWA: 200 ppm (734 mg/m ³) (WEL, EU) | WEL-STEL: 400 ppm (1468 mg/m ³) (WEL, EU) | --- | |
| | Monitoring procedures: | <ul style="list-style-type: none"> - 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) (Lösungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002 - DFG Meth. Nr. 2 (D) (Lösungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - DFG Meth. Nr. 6 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002 - NIOSH 1457 (ETHYL ACETATE) - 1994 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 | | |
| | BMGV: --- | Other information: --- | | |
| Ⓢ | Chemical Name | Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | Content | %:<10 |
| | WEL-TWA: 10 mg/m ³ (total inhalable dust), 4 mg/m ³ (respirable dust) | WEL-STEL: --- | --- | |
| | Monitoring procedures: | --- | | |
| | BMGV: --- | Other information: --- | | |
| Ⓢ | Chemical Name | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | Content | %:2,5-<5 |
| | WEL-TWA: 1200 mg/m ³ | WEL-STEL: --- | --- | |
| | Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) - Compur - KITA-187 S (551 174) | | |
| | BMGV: --- | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) | | |
| Ⓢ | Chemical Name | Propan-2-ol | Content | %:1-<2,5 |
| | WEL-TWA: 400 ppm (999 mg/m ³) | WEL-STEL: 500 ppm (1250 mg/m ³) | --- | |
| | Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Alcohol 25/a i-Propanol (81 01 631) - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-150 U (550 382) | | |

Ⓒ

Page 7 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | |
|--|-------------------------------------|---|
| | | DFG (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 |
| | | - (2004) |
| | | - NIOSH 1400 (ALCOHOLS I) - 1994 |
| | | NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 |
| | | - Draeger - Alcohol 100/a (CH 29 701) |
| BMGV: --- | Other information: --- | |
| Ⓒ Chemical Name | Propane | Content %: |
| WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Compur - KITA-125 SA (549 954) | |
| | - OSHA PV2077 (Propane) - 1990 | |
| BMGV: --- | Other information: --- | |
| Ⓒ Chemical Name | Barium sulphate | Content %: |
| WEL-TWA: 4 mg/m ³ (respirable dust), 10 mg/m ³ (total inhalable dust) | WEL-STEL: --- | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |
| Ⓒ Chemical Name | Talc | Content %: |
| WEL-TWA: 1 mg/m ³ (res. dust) | WEL-STEL: --- | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |
| Ⓒ Chemical Name | Isobutane | Content %: |
| WEL-TWA: 1000 ppm (EX) (ACGIH) | WEL-STEL: --- | --- |
| Monitoring procedures: | - Compur - KITA-113 SB(C) (549 368) | |
| BMGV: --- | Other information: --- | |

| Ethyl acetate | | | | | | |
|---------------------|--|------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,24 | mg/l | |
| | Environment - marine | | PNEC | 0,024 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,65 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1,15 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,115 | mg/kg | |
| | Environment - soil | | PNEC | 0,148 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 650 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 200 | mg/kg | |



Page 8 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | |
|---------------------|--------------------|------------------------------|------|------|-------------------|--|
| 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/m ³ | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 367 | mg/m ³ | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 734 | mg/m ³ | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 734 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 63 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 734 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 734 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 1468 | mg/m ³ | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1468 | mg/m ³ | |

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm)

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|--------|-------------------|------|
| | Environment - freshwater | | PNEC | 0,184 | mg/l | |
| | Environment - marine | | PNEC | 0,0184 | 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 | |
| | Environment - sediment, marine | | PNEC | 100 | mg/kg dw | |
| | Environment - soil | | PNEC | 100 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 1667 | mg/kg feed | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 700 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m ³ | |



Page 9 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

| Propan-2-ol | | | | | | |
|----------------------------|--|-----------------------------|-------------------|--------------|-------------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 140,9 | mg/l | |
| | Environment - marine | | PNEC | 140,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 552 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 552 | mg/kg dw | |
| | Environment - soil | | PNEC | 28 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 2251 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 140,9 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 160 | mg/kg feed | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 319 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 89 | mg/m ³ | |
| 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/m ³ | |

Barium sulphate



Page 10 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-----------------------|------|
| | Environment - freshwater | | PNEC | 0,115 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 600,4 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 62,2 | mg/l | |
| | Environment - soil | | PNEC | 207,7 | mg/kg dw | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 13000 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 10 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m ³ | |

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

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

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).

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

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

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

= The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.



Page 11 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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 374).

Recommended

Protective gloves in butyl rubber (EN 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.

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.



Page 12 of 33
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 29.04.2021 / 0017
Replacing version dated / version: 12.11.2020 / 0016
Valid from: 29.04.2021
PDF print date: 02.06.2021
Marking Spray plus Yellow 500 ml
Art.: 9094958

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state: | Aerosol. Active substance: liquid. |
| Colour: | According to specification |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | <0 °C |
| Flash point: | -97 °C |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Lower explosive limit: | 1,7 Vol-% |
| Upper explosive limit: | 11,5 Vol-% |
| Vapour pressure: | 8300 hPa (20°C) |
| Vapour density (air = 1): | Not determined |
| Density: | 0,93 g/ml (Active substance) |
| Density: | 0,67 g/cm ³ (20°C) |
| Bulk density: | Not determined |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 460 °C (Ignition temperature) |
| Decomposition temperature: | Not determined |
| Viscosity: | <=20,5 mm ² /s (40°C, Active substance) |
| Explosive properties: | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Oxidising properties: | No |
| 9.2 Other information | |
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| 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.

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.



Page 13 of 33
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 29.04.2021 / 0017
 Replacing version dated / version: 12.11.2020 / 0016
 Valid from: 29.04.2021
 PDF print date: 02.06.2021
 Marking Spray plus Yellow 500 ml
 Art.: 9094958

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 toxicological effects

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

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

Ethyl acetate

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

®

Page 14 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

®

Page 15 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm)

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|--------------------------------|----------|-------|-------|----------|--|-------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) | |

®

Page 16 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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



Page 17 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | |
|---|-------|------|---------|-----|--|---|
| 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-alkanes, isoalkanes, cyclics | | | | | | |
|---|----------|-------|---------|------------|--|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2800 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >23,3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |

®

Page 18 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

| Propan-2-ol | | | | | | |
|----------------------------------|-----------------|--------------|-------------|-----------------|----------------------------------|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4570-5840 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | 12800-13900 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 30 | mg/l/4h | Rat | | |



Page 19 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | |
|---|-------|-----|-------|------------------------|--|---|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | 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) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | (Ames-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 |
| 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 |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes |
| 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) | |

®

Page 20 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | |
|---|-------|------|-----|-----|--|------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 5000 | ppm | Rat | | VapoursOEC D 451 |
|---|-------|------|-----|-----|--|------------------|

| Propane | | | | | | |
|---|-----------------|--------------|-------------|------------------------|--|--|
| 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/Developmental Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | breathing difficulties, unconsciousness, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting. |

| | | | | | | |
|---|-------|--------|------|-----|--|--|
| 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/Development 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/Development Tox. Screening Test) | |

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

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



Page 23 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| 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. Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | DOC-elimination degree(comp lexing organic substance)>= 80%/28d: n.a. |

| Ethyl acetate | | | | | | | |
|----------------------------|-----------------|-------------|--------------|-------------|-------------------------|--|-------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to bacteria: | EC10 | 18h | 2900 | mg/l | Pseudomonas putida | | |
| 12.1. Toxicity to fish: | LC50 | 48h | 333 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 32d | >9,65 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 230 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 610 | mg/l | Daphnia magna | DIN 38412 T.11 | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 2,4 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 165 | mg/l | | | Daphnia cucullata |
| 12.1. Toxicity to algae: | EC50 | 48h | 5600 | mg/l | Desmodesmus subspicatus | DIN 38412 T.9 | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 96h | 2000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |

| | | | | | | | |
|--|-----------|-------|---------|-------------------------|---------------------------------|---|--|
| 12.1. Toxicity to algae: | EC50 | 96h | >2000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >100 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 48h | 3300 | mg/l | Scenedesmus subspicatus | | |
| 12.2. Persistence and degradability: | | 20d | 79 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | 72h | 30 | | | | (Fish) |
| 12.3. Bioaccumulative potential: | Log Kow | | 0,68 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Bioaccumulation is unlikely (LogPow < 1).25 °C |
| 12.4. Mobility in soil: | H (Henry) | | 0,00012 | atm*m ³ /mol | | | |
| 12.4. Mobility in soil: | Koc | | 3 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 16h | 2900 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | EC50 | 15min | 5870 | mg/l | Photobacterium phosphoreum | | |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | | | | | | | |
|--|-----------------|-------------|--------------|-------------|---------------------|--|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | LC50 | 48h | >100 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |



Page 25 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | | |
|--|-----------|-----|--------|-------|---------------------------------|-----------------------|--|
| 12.1. Toxicity to algae: | EC50 | 72h | 16 | mg/l | Pseudokirchneriella subcapitata | U.S. EPA-600/9-78-018 | |
| 12.2. Persistence and degradability: | | | | | | | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential: | BCF | 42d | 9,6 | | | | Not to be expected |
| 12.3. Bioaccumulative potential: | BCF | 14d | 19-352 | | | | Oncorhynchus mykiss |
| 12.4. Mobility in soil: | | | | | | | Negative |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | | | >5000 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | LC0 | 24h | >10000 | mg/l | Pseudomonas fluorescens | | |
| Toxicity to annelids: | NOEC/NOEL | | >1000 | mg/kg | Eisenia foetida | | |
| Water solubility: | | | | | | | Insoluble ^{20°} C |

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

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|------------------------------|----------|------|----------|------|---------------------|--|--------------------------------------|
| 12.6. Other adverse effects: | | | | | | | Product floats on the water surface. |
| 12.1. Toxicity to fish: | NOELR | 28d | 0,574 | | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 3 - 10 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | 4,6 - 10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 1 -1,6 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |

| | | | | | | | |
|--|-----------|-----|-------|------|---------------------------------|--|-------------------------------------|
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 10 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EL50 | 72h | 10 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Completely biodegradable. |
| 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 |
| Toxicity to bacteria: | EC10 | 16h | 1050 | mg/l | Pseudomonas putida | | |
| 12.3. Bioaccumulative potential: | BCF | | 3,2 | | | | Low |
| 12.1. Toxicity to fish: | LC50 | 96h | >100 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 1400 | mg/l | Lepomis macrochirus | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 2285 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 16d | 141 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | >100 | mg/l | Desmodesmus subspicatus | | |
| 12.2. Persistence and degradability: | | 21d | 95 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |



Page 27 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | | |
|--|---------|--|-------|------|------------------|--|-------------------------------------|
| 12.2. Persistence and degradability: | | | 99,9 | % | | OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,05 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Slight |
| 12.4. Mobility in soil: | Koc | | 1,1 | | | | Expert judgement |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | | >1000 | mg/l | activated sludge | | |
| 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. Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Barium sulphate | | | | | | | |
|-------------------------|----------|------|-------|------|-------------------|--------------------------------------|----------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | >3,5 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |



Page 28 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| | | | | | | | |
|--|-----------|-----|-------|------|---------------------------------|--|--|
| 12.1. Toxicity to fish: | NOEC/NOEL | 33d | >1,26 | mg/l | Brachydanio rerio | OECD 210 (Fish, Early-Life Stage Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 2,9 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 14,5 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | ErC50 | 72h | >1,15 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >1,15 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | Analogous conclusion |
| 12.2. Persistence and degradability: | | | | | | | Not biodegradable, Inorganic products cannot be eliminated from water through biological purification methods. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.a. |

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

| Isobutane |
|------------------|
|------------------|



Page 29 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

| 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 biodegradable |
| 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:

1950

Transport by road/by rail (ADR/RID)



Page 30 of 33
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision date / version: 29.04.2021 / 0017
 Replacing version dated / version: 12.11.2020 / 0016
 Valid from: 29.04.2021
 PDF print date: 02.06.2021
 Marking Spray plus Yellow 500 ml
 Art.: 9094958

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



Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

14.5. Environmental hazards: Not applicable



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

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

Comply with trade association/occupational health regulations.

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

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



Page 31 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

The Notes to Annex I 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): 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: 15

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. |
| 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.



Page 32 of 33
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 29.04.2021 / 0017
Replacing version dated / version: 12.11.2020 / 0016
Valid from: 29.04.2021
PDF print date: 02.06.2021
Marking Spray plus Yellow 500 ml
Art.: 9094958

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

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
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)



Page 33 of 33

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

Revision date / version: 29.04.2021 / 0017

Replacing version dated / version: 12.11.2020 / 0016

Valid from: 29.04.2021

PDF print date: 02.06.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

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

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.

No responsibility.