

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: 4110021930-6869-Black
4110021940-6870-Anthracite
Product name: SPRAY STRUCTURE PAINT
UFI : 3RA1-Y3Y0-T00U-228D

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

Intended use: Spray paint with structuring effect for plastics and metals

1.3. Details of the supplier of the safety data sheet

Name: Meccanocar Italia S.r.l.
Full address: Via San Francesco, 22
District and Country: 56033 Capannoli (PI)
Italy

Tel. +39 0587 609433

Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet: moreno.meini@meccanocar.it
Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to: National Poisons Information Service: +44 121 507 4123

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|--|--------------|---|
| Aerosol, category 1 | H222 H229 | Extremely flammable aerosol. Pressurised container: may burst if heated. |
| Eye irritation, category 2 | H319 | Causes serious eye irritation. |
| Specific target organ toxicity - single exposure, category 3 | H336 | May cause drowsiness or dizziness. |

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

SPRAY STRUCTURE PAINT

Hazard pictograms:



Signal words:

Danger

Hazard statements:

| | |
|---------------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Precautionary statements:

| | |
|-----------------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P251 | Do not pierce or burn, even after use. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F. |
| P211 | Do not spray on an open flame or other ignition source. |
| P280 | Wear eye protection / face protection. |
| P304+P340 | IF INHALED: remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents / container in accordance with local regulations. |

| | |
|------------------|---------------------------------------|
| Contains: | BUTANOL ACETONE N-BUTYL ACETATE |
|------------------|---------------------------------------|

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|------------------------------|--------------------|--|
| ACETONE | | |
| CAS 67-64-1 | $45 \leq x < 47,5$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC 200-662-2 | | |
| INDEX 606-001-00-8 | | |
| REACH Reg. 01-2119471330-49- | | |

SPRAY STRUCTURE PAINT

| | | |
|--|--------------------|--|
| XXXX | | |
| METHYL OXIDE DIMETHYLETER | | |
| CAS 115-10-6 | $22,5 \leq x < 24$ | Flam. Gas 1A H220, Press. Gas H280 |
| EC 204-065-8 | | |
| INDEX - | | |
| REACH Reg. 01-2119472128-37- | | |
| XXXX | | |
| ISOBUTANE | | |
| CAS 75-28-5 | $6 \leq x < 7$ | Flam. Gas 1A H220, Press. Gas H280 |
| EC 200-857-2 | | |
| INDEX 601-004-00-0 | | |
| REACH Reg. 01-2119485395-27- | | |
| XXXX | | |
| BUTANE | | |
| CAS 106-97-8 | $6 \leq x < 7$ | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U |
| EC 203-448-7 | | |
| INDEX 601-004-00-0 | | |
| REACH Reg. 01-2119474691-32- | | |
| XXXX | | |
| 2-METHOXY-1-METHYLETHYL ACETATE | | |
| CAS 108-65-6 | $6 \leq x < 7$ | Flam. Liq. 3 H226, STOT SE 3 H336 |
| EC 203-603-9 | | |
| INDEX 607-195-00-7 | | |
| REACH Reg. 01-2119475791-29- | | |
| XXXX | | |
| PROPANE | | |
| CAS 74-98-6 | $6 \leq x < 7$ | Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U |
| EC 200-827-9 | | |
| INDEX 601-003-00-5 | | |
| REACH Reg. 01-2119486944-21- | | |
| XXXX | | |
| N-BUTYL ACETATE | | |
| CAS 123-86-4 | $6 \leq x < 7$ | Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 |
| EC 204-658-1 | | |
| INDEX 607-025-00-1 | | |
| REACH Reg. 01-2119485493-29- | | |
| XXXX | | |
| BUTANOL | | |
| CAS 71-36-3 | $2 \leq x < 2,5$ | Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336 LD50 Oral: 790 ppm/4h |
| EC 200-751-6 | | |
| INDEX 603-004-00-6 | | |
| REACH Reg. 01-2119484630-38- | | |
| XXXX | | |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 41,00 %

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

| | | |
|-----|----------------------|---|
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| LTU | Lietuva | Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo |
| NOR | Norge | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255 |
| PRT | Portugal | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos |
| POL | Polska | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | TLV-ACGIH RCP TLV | ACGIH 2021 ACGIH TLVs and BEIs – Appendix H |

| ACETONE | | | | | |
|-----------------------|---------|--------|-----|------------|-----|
| Threshold Limit Value | | | | | |
| Type | Country | TWA/8h | | STEL/15min | |
| | | mg/m3 | ppm | mg/m3 | ppm |

| | | | | | | | | |
|--|----------------------|----------------|---------------|------------------|--------------------|------------------------|---------------|------------------|
| VLEP | FRA | 1210 | 500 | 2420 | 1000 | | | |
| VLEP | ITA | 1210 | 500 | | | | | |
| RD | LTU | 1210 | 500 | 2420 | 1000 | | | |
| TLV | NOR | 295 | 125 | | | | | |
| VLE | PRT | 1210 | 500 | | | | | |
| NDS/NDSch | POL | 600 | | 1800 | | | | |
| WEL | GBR | 1210 | 500 | 3620 | 1500 | | | |
| OEL | EU | 1210 | 500 | | | | | |
| TLV-ACGIH | | | 250 | | 500 | | | |
| Predicted no-effect concentration - PNEC | | | | | | | | |
| Normal value in fresh water | | | | 10,6 | mg/l | | | |
| Normal value in marine water | | | | 1,06 | mg/l | | | |
| Normal value for fresh water sediment | | | | 30,4 | mg/kg | | | |
| Normal value for marine water sediment | | | | 3,04 | mg/kg | | | |
| Normal value of STP microorganisms | | | | 100 | mg/l | | | |
| Normal value for the terrestrial compartment | | | | 29,5 | mg/kg | | | |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | |
| | Effects on consumers | | | | Effects on workers | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 62 mg/kg bw/d | | | | |
| Inhalation | | | | 200 mg/m3 | | | 2420 mg/m3 | 1210 mg/m3 |
| Skin | | | | 62 mg/kg bw/d | | | | 186 mg/kg bw/d |
| METHYL OXIDE DIMETHYLETER | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLEP | ITA | 983 | 400 | | | INHAL | | |
| Predicted no-effect concentration - PNEC | | | | | | | | |
| Normal value in fresh water | | | | 1,55 | mg/l | | | |
| Normal value in marine water | | | | 0,16 | mg/l | | | |
| Normal value for fresh water sediment | | | | 6,581 | mg/kg | | | |
| Normal value for marine water sediment | | | | 0,69 | mg/kg | | | |
| Normal value for water, intermittent release | | | | 1,549 | mg/l | | | |
| Normal value for the terrestrial compartment | | | | 0,45 | mg/kg | | | |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | |
| | Effects on consumers | | | | Effects on workers | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | | 471 mg/m3 | | NPI | | 1894 mg/m3 |
| N-BUTYL ACETATE | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | | | | | | | |

| | | mg/m3 | ppm | mg/m3 | ppm | | | |
|--|----------------------|--------------------|---------------|------------------|-------------|------------------------|---------------|------------------|
| VLA | ESP | 241 | 50 | 724 | 150 | | | |
| VLEP | FRA | 710 | 150 | 940 | 200 | | | |
| VLEP | ITA | 241 | 50 | 723 | 150 | | | |
| RD | LTU | 241 | 50 | 723 | 150 | | | |
| TLV | NOR | | 75 | | | | | |
| VLE | PRT | 241 | 50 | 723 | 150 | | | |
| NDS/NDSch | POL | 240 | | 720 | | | | |
| WEL | GBR | 724 | 150 | 966 | 200 | | | |
| OEL | EU | 241 | 50 | 723 | 150 | | | |
| TLV-ACGIH | | | 50 | | 150 | | | |
| Predicted no-effect concentration - PNEC | | | | | | | | |
| Normal value in fresh water | | | | 0,18 | mg/l | | | |
| Normal value in marine water | | | | 0,018 | mg/l | | | |
| Normal value for fresh water sediment | | | | 0,981 | mg/kg | | | |
| Normal value for marine water sediment | | | | 0,098 | mg/kg | | | |
| Normal value of STP microorganisms | | | | 35,6 | mg/l | | | |
| Normal value for the terrestrial compartment | | | | 0,09 | mg/kg | | | |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | |
| | Effects on consumers | Effects on workers | | | | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | 2 mg/kg bw/d | | 2 mg/kg bw/d | | | | |
| Inhalation | 300 mg/m3 | 300 mg/m3 | 35,7 mg/m3 | 35,7 mg/m3 | 600 mg/m3 | 600 mg/m3 | 300 mg/m3 | 300 mg/m3 |
| Skin | | 6 mg/kg bw/d | | 6 mg/kg bw/d | | 11 mg/kg bw/d | | 11 mg/kg bw/d |
| PROPANE | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLA | ESP | | 1000 | | | | | |
| TLV | NOR | 900 | 500 | | | | | |
| NDS/NDSch | POL | 1800 | | | | | | |
| TLV-ACGIH | | | 1000 | | | | | |
| 2-METHOXY-1-METHYLETHYL ACETATE | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLA | ESP | 275 | 50 | 550 | 100 | SKIN | | |
| VLEP | FRA | 275 | 50 | 550 | 100 | SKIN | | |
| VLEP | ITA | 275 | 50 | 550 | 100 | SKIN | | |
| RD | LTU | 250 | 50 | 400 | 75 | SKIN | | |
| TLV | NOR | 270 | 50 | | | SKIN | | |
| VLE | PRT | 275 | 50 | 550 | 100 | SKIN | | |

| | | | | | | | | |
|--|----------------------|----------------|---------------|------------------|--------------------|------------------------|---------------|------------------|
| NDS/NDSch | POL | 260 | | 520 | | | | SKIN |
| WEL | GBR | 274 | 50 | 548 | 100 | | | SKIN |
| OEL | EU | 275 | 50 | 550 | 100 | | | SKIN |
| Predicted no-effect concentration - PNEC | | | | | | | | |
| Normal value in fresh water | | | | 0,635 | | | | mg/l |
| Normal value in marine water | | | | 0,064 | | | | mg/l |
| Normal value for fresh water sediment | | | | 3,29 | | | | mg/kg |
| Normal value for marine water sediment | | | | 0,329 | | | | mg/kg |
| Normal value of STP microorganisms | | | | 100 | | | | mg/l |
| Normal value for the terrestrial compartment | | | | 0,29 | | | | mg/kg |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | |
| | Effects on consumers | | | | Effects on workers | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | 500 mg/kg bw/d | | 36 mg/kg bw/d | | | | |
| Inhalation | | | 33 mg/m3 | 33 mg/m3 | | | 550 mg/m3 | 275 mg/m3 |
| Skin | | | | 320 mg/kg bw/d | | | | 796 mg/kg bw/d |
| BUTANE | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLA | ESP | | 1000 | | | Gases | | |
| VLEP | FRA | 1900 | 800 | | | | | |
| TLV | NOR | 600 | 250 | | | | | |
| NDS/NDSch | POL | 1900 | | 3000 | | | | |
| WEL | GBR | 1450 | 600 | 1810 | 750 | | | |
| TLV-ACGIH | | | | | 1000 | | | |
| ISOBUTANE | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| RCP TLV | | | 1000 | | | RESP | | |
| BUTANOL | | | | | | | | |
| Threshold Limit Value | | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| VLA | ESP | 61 | 20 | 154 | 50 | | | |
| VLEP | FRA | | | 150 | 50 | | | |
| RD | LTU | 45 | 15 | 90 (C) | 30 (C) | SKIN | | |
| TLV | NOR | 75 | 25 | | | SKIN | | |
| NDS/NDSch | POL | 50 | | 150 | | SKIN | | |
| WEL | GBR | | | 154 | 50 | SKIN | | |

| | | | | | | | | |
|--|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| TLV-ACGIH | 61 | 20 | | | | | | |
| Predicted no-effect concentration - PNEC | | | | | | | | |
| Normal value in fresh water | | | | 0,082 | | mg/l | | |
| Normal value in marine water | | | | 0,008 | | mg/l | | |
| Normal value for fresh water sediment | | | | 0,324 | | mg/kg | | |
| Normal value for marine water sediment | | | | 0,032 | | mg/kg | | |
| Normal value of STP microorganisms | | | | 2476 | | mg/l | | |
| Normal value for the terrestrial compartment | | | | 0,017 | | mg/kg | | |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | |
| | Effects on consumers | | | | Effects on workers | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 1,562 mg/kg bw/d | | | | |
| Inhalation | | | 155 mg/m3 | 55,357 mg/m3 | | | 310 mg/m3 | |
| Skin | | | | 3,125 mg/kg bw/d | | | | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
None required.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

ACETONE

SPRAY STRUCTURE PAINT

Protective gloves according to EN 374.

Glove material: Butyl rubber (butyl rubber) - Layer thickness >= 0.5 mm.

Breakthrough time: > 480 min.

Observe the glove manufacturer's instructions regarding penetrability and breakthrough time.

N-BUTYL ACETATE

Wear protective gloves. The recommendations are listed below. Other protective material can be used, depending on the situation, if adequate data on degradation and permeation are available. If other chemicals are used together with this chemical, the selection of materials should be based on the protection of all chemicals present.

2-METHOXY-1-METHYLETHYL ACETATE

Use gloves chemically resistant to this material in case of prolonged or frequent repeated contact. Use chemical resistant gloves classified according to EN374: protective gloves against chemicals and microorganisms. Examples of preferred barrier material for gloves include: Butyl rubber. Polyethylene. Chlorinated polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable barrier materials for gloves include: Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Nitrile / butadiene rubber ("nitrile" or "NBR"). In the event of prolonged or frequently repeated contact, a glove with a protection class of 5 or higher is recommended (breakthrough time greater than 240 minutes according to EN 374). When only brief contact is expected, a glove with a protection class of 1 or more is recommended (breakthrough time greater than 10 minutes according to EN 374)

ISOBUTANE

Suitable glove material Protective gloves, eg. nitrile butadiene rubber gloves (NBR), leather gloves, heat insulating

Selection of protective gloves to meet specific workplace requirements.

Suitability for specific workplaces should be clarified with the manufacturers of protective gloves.

The information is based on our tests, references from literature and information from glove manufacturers or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protective glove can be much shorter than the breakthrough time determined according to EN 374 due to the many influencing factors involved.

BUTANOL

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to > 480 minutes of permeation time according to EN 374):

butyl rubber (butyl) - coating thickness 0.7 mm

nitrile rubber (NBR) - coating thickness of 0.4 mm

Additional note: specifications are based on tests, literature data and information from glove manufacturers or derive from similar substances by analogy.

Due to many conditions (eg temperature), it should be considered that the practical use of a chemical protective glove in practice can be much shorter than the breakthrough time determined through testing.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--------------------------------|---------------------------|-------------|
| Appearance | aerosol | |
| Colour | black | |
| Odour | characteristic of solvent | |
| Melting point / freezing point | Not available | |

SPRAY STRUCTURE PAINT

| | | |
|--|----------------|--------------------|
| Initial boiling point | Not available | |
| Flammability | Not available | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Flash point | Not available | |
| Auto-ignition temperature | 240 °C | |
| pH | Not available | |
| Kinematic viscosity | Not available | |
| Solubility | Not available | |
| Partition coefficient: n-octanol/water | Not available | |
| Vapour pressure | 400000 Pa | Temperature: 20 °C |
| Density and/or relative density | 761 kg/l | |
| Relative vapour density | Not available | |
| Particle characteristics | Not applicable | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

ACETONE

Decomposes under the effect of heat.

Acetone reacts in the presence of bases. The vapor forms potentially explosive mixtures with the air. Heavier than air, they proceed at floor level and can flash at a great distance when turned on. It can electrostatically charge.

N-BUTYL ACETATE

Decomposes on contact with: water.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

SPRAY STRUCTURE PAINT

BUTANOL

Attacks various types of plastic materials.

Vapors can form an explosive mixture with air.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ACETONE

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3 butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromyl chloride, nitric acid, chloroform, peroxy monosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

METHYL OXIDE DIMETHYLETER

Vapors can form an explosive mixture with air.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

Vapors can form an explosive mixture with air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

BUTANE

Vapors can form an explosive mixture with air.

ISOBUTANE

Vapors can form an explosive mixture with air.

BUTANOL

Reacts violently developing heat on contact with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with: air.

SPRAY STRUCTURE PAINT

Reacts with strong oxidizing agents.

10.4. Conditions to avoid

Avoid overheating.

ACETONE

Avoid exposure to: sources of heat,naked flames.

Highly flammable. Concentrated vapors are heavier than air. Forms explosive mixtures with air, even in empty and uncleaned containers. It can produce, if mixed with chlorinated hydrocarbons and exposed to light, highly irritating chlorine acetone.

METHYL OXIDE DIMETHYLETER

Temperature:> 52 ° C

N-BUTYL ACETATE

Avoid exposure to: moisture,sources of heat,naked flames.

Avoid contact with heat, sparks, open flames and static discharge. Avoid any source of ignition.

2-METHOXY-1-METHYLETHYL ACETATE

The product can oxidize at high temperatures. Avoid static discharge. Flammable vapors can be released at high temperatures

BUTANE

Avoid heat and sources of ignition.

ISOBUTANE

Keep away from heat and other causes of fire.

BUTANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

ACETONE

SPRAY STRUCTURE PAINT

Incompatible with: acids, oxidising substances.

Attacks many plastics and rubbers. Condensation may form on contact with barium hydroxide, sodium hydroxide and many other alkaline materials. Avoid contact with strong oxidizing agents, alkalis and amines.

METHYL OXIDE DIMETHYLETER

Oxygen, oxidizing agents, acid anhydrides, strong acids, carbon monoxide, acetic anhydride, powdered metals.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

Strong acids and strong bases, strong oxidizing agents.

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

Avoid contact with oxidizing materials. Avoid contact with: strong acids. Strong oxidants.

BUTANE

Strong oxidizing agents, chlorine, oxygen.

ISOBUTANE

Strong oxidizing agents, chlorine, oxygen.

BUTANOL

Strong oxidizing agents.

10.6. Hazardous decomposition products

ACETONE

May develop: ketenes, irritant substances.

In case of fire the following can be released: carbon monoxide and carbon dioxide.

METHYL OXIDE DIMETHYLETER

SPRAY STRUCTURE PAINT

Formaldehyde, carbon dioxide (CO₂), carbon monoxide, methanol.

BUTANE

In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO₂).

ISOBUTANE

In case of fire or production of thermal decomposition, for example, carbon monoxide, carbon dioxide (CO₂).

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

Interactive effects

SPRAY STRUCTURE PAINT

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

| | |
|----------------------------------|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture: | >2000 mg/kg |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

METHYL OXIDE DIMETHYLETER

| | |
|----------------------------|-------------------|
| LC50 (Inhalation vapours): | 164000 ppm/4h rat |
|----------------------------|-------------------|

2-METHOXY-1-METHYLETHYL ACETATE

| | |
|----------------|------------------|
| LD50 (Dermal): | > 5000 mg/kg Rat |
| LD50 (Oral): | 8530 mg/kg Rat |

BUTANOL

| | |
|----------------------------|-------------------|
| LD50 (Dermal): | 3400 mg/kg Rabbit |
| LD50 (Oral): | 790 mg/kg Rat |
| LC50 (Inhalation vapours): | 8000 ppm/4h Rat |

ACETONE

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley)

Route of exposure: Oral

Results: LD50 = 5800 mg / kg bw

Bibliographic reference: Acetone potentiation of acute acetonitrile toxicity, Freeman JJ, Hayes EP (1985)

METHYL OXIDE DIMETHYLETER

Method: Not indicated

Reliability: 2

Species: Rat (albino ChR-CD; male)

Route of exposure: Inhalation (gas)

Results: LC50: 164 000 ppm

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 423

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: LD50 = 12.2 mL / kg bw

Method: Equivalent or similar to OECD 402

Reliability: 2

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal

Results: LD50> 16 mL / kg bw

SPRAY STRUCTURE PAINT**PROPANE**

Method: To study the concentrations at which the effects of the CNS occur following exposure by inhalation to propane by measuring LC50 (15 min) and EC50 (CNS) (10 min) in rats.

Reliability: 2

Species: Rat (Alderley Park (SPF); male / female)

Route of exposure: Inhalation

Results: LC50> 800 000 ppm

BUTANE

Method: Not indicated

Reliability: 2

Species: Rat (Alderley Park (SPF); male / female)

Route of exposure: Inhalation

Results: LC50: 1 443 mg / L air

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 404

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Not irritating

2-METHOXY-1-METHYLETHYL ACETATE

Method: Equivalent or similar from OECD 404

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Not irritating

BUTANOL

Method: Not indicated

Reliability: 2

Species: Rabbit (Vienna White)

Route of exposure: Dermal

Results: Irritating, category 2

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

N-BUTYL ACETATE

Method: OECD 405

SPRAY STRUCTURE PAINT

Reliability: 2
Species: Rabbit (New Zealand White)
Route of exposure: Ocular
Results: Not irritating

2-METHOXY-1-METHYLETHYL ACETATE
Method: Equivalent or similar from OECD 405
Reliability: 2
Species: Rabbit (New Zealand White)
Route of exposure: Ocular
Results: Not irritating

BUTANOL
Method: OECD 405
Reliability: 1
Species: Rabbit (New Zealand White)
Route of exposure: Ocular
Results: Positive, category 1

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

ACETONE
Method: Not indicated
Reliability: 2
Species: guinea pig (Hartley; female)
Route of exposure: Dermal
Results: Not sensitizing
Bibliographic reference: A new protocol and criteria for quantitative determination of sensitization potencies of chemicals by guinea pig maximization test, Nakamura A, Momma J, Sekiguchi H, Noda T, Yamano T, Kaniwa MA, Kojima S, Tsuda M, Kurokawa Y (1994)

Respiratory sensitization

Information not available

Skin sensitization

2-METHOXY-1-METHYLETHYL ACETATE
Method: Equivalent or similar from OECD 406
Reliability: 2
Species: guinea pig (Dunkin-Hartley; male / female)
Route of exposure: Dermal
Results: Not sensitizing

GERM CELL MUTAGENICITY

SPRAY STRUCTURE PAINT

Does not meet the classification criteria for this hazard class

METHYL OXIDE DIMETHYLETER

Method: OECD 471 in vitro test

Reliability: 1

Species: S. typhimurium

Results: Negative

Method: Equivalent or similar to OECD 477 in vivo test

Reliability: 2

Species: Drosophila melanogaster (male)

Route of exposure: Inhalation (gas)

Results: Negative

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 2

Species: S. typhimurium, E. Coli

Results: Negative with and without metabolic activation

Method: OECD 474-test in vivo

Reliability: 2

Species: Mouse (NMRI; male / female)

Route of exposure: Oral

Results: Negative

PROPANE

Method: OECD 471 in vitro test

Reliability: 1

Species: Histidine Salmonella

Results: Negative with or without metabolic activation

Method: OECD 474-test in vivo

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation (gas)

Results: Negative

2-METHOXY-1-METHYLETHYL ACETATE

Method: Equivalent or similar from OECD 471-in vitro test

Reliability: 1

Species: Salmonella typhimurium

Results: Negative

BUTANE

Method: OECD 471 in vitro test

Reliability: 1

Species: Salmonella strains, S. typhimurium

Results: Negative without metabolic activation

Method: OECD 474-test in vivo

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation (gas)

Results: Negative

SPRAY STRUCTURE PAINT

BUTANOL

Method: OECD 476 in vitro test

Reliability: 1

Species: Chinese hamster

Results: Negative with or without metabolic activation

Method: OECD 474-test in vivo

Reliability: 1

Species: Mouse (NMRI; male / female)

Route of exposure: Oral

Results: Negative

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ACETONE

Method: Not indicated

Reliability: 2

Species: Mouse (ICR; female)

Route of exposure: Dermal

Results: Negative

Bibliographic reference: Mouse skin carcinogenicity tests of the flame retardants tris (2,3-dibromopropyl) phosphate, tetrakis (hydroxymethyl) phosphonium chloride, and polyvinyl bromide, Van Duuren BL, Loewengart G, Seldman I, Smith AC, Melchionne S (1974)

METHYL OXIDE DIMETHYLETER

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (CD (R) (SD) BR; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative

2-METHOXY-1-METHYLETHYL ACETATE

Method: OECD Guideline 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Inhalation (vapors)

Results: NOEL 300 ppm

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

METHYL OXIDE DIMETHYLETER

Method: Equivalent or similar to OECD 452

Reliability: 1

Species: Rat (CD (SD) BR; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative

SPRAY STRUCTURE PAINT

BUTANE

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation

Results: NOAEC 10000 ppm

Adverse effects on sexual function and fertility

N-BUTYL ACETATE

Method: OECD 416

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC (fertility) = 750 ppm

PROPANE

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley CD; male / female)

Route of exposure: Inhalation

Results: NOAEC (fertility) 10 000 ppm

2-METHOXY-1-METHYLETHYL ACETATE

Method: OECD Guideline 416

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: NOAEL 300 ppm

Adverse effects on development of the offspring

ACETONE

Method: Equivalent or similar to OECD 414

Reliability: 1

Species: Rat (Sprague-Dawley)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC (development) = 2200 ppm

N-BUTYL ACETATE

Method: Equivalent or similar to OECD 414

Reliability: 1

Species: Rat (Sprague-Dawley)

Route of exposure: Inhalation (vapors)

Results: Positive, NOAEC (development) = 1500 ppm

PROPANE

Method: EPA OPPTS 870.3700

Reliability: 1

Species: Rat (VAF / Plus®, Sprague-Dawley Derived (CD®) Crl: CD® IGS BR)

Route of exposure: Inhalation (gas)

SPRAY STRUCTURE PAINT

Results: NOAEC (development) 10 426 ppm

2-METHOXY-1-METHYLETHYL ACETATE

Method: Equivalent or similar from OECD 414

Reliability: 1

Species: Rat (Sprague-Dawley)

Route of exposure: Inhalation

Results: NOAEL 500 ppm

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

ACETONE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

METHYL OXIDE DIMETHYLETER

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

N-BUTYL ACETATE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

PROPANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

2-METHOXY-1-METHYLETHYL ACETATE

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

BUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

ISOBUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

BUTANOL

Based on available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

SPRAY STRUCTURE PAINT

Target organs

ACETONE
Narcotic effects

N-BUTYL ACETATE
Central nervous system.

2-METHOXY-1-METHYLETHYL ACETATE
Central nervous system

Route of exposure

ACETONE
Inhalation

2-METHOXY-1-METHYLETHYL ACETATE
Oral

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ACETONE
Method: Equivalent or similar to OECD 408
Reliability: 1
Species: Rat (Fischer 344; male / female)
Route of exposure: Oral
Results: Negative, NOAEL = 10000 ppm
Method: Not indicated
Reliability: 2
Species: Rat (Sprague-Dawley; male)
Route of exposure: Inhalation
Results: Negative, NOAEC = 19000 ppm
Bibliographic reference: Evaluation of toluene and acetone inhalant abuse. II. Model development and toxicology, Bruckner JV, Peterson RG (1981)
Method: Not indicated
Reliability: 2
Species: Not indicated
Route of exposure: Dermal
Results: Negative
Bibliographic reference: Pathology of aging female SENCAR mice used as controls in skin two-stage carcinogenesis studies, Ward J, Quander RD, Wenk M, Spangler E (1986)

METHYL OXIDE DIMETHYLETER

SPRAY STRUCTURE PAINT

Method: Equivalent or similar to OECD 452

Reliability: 1

Species: Rat (CrI: CD (R) (SD) BR; male / female)

Route of exposure: Inhalation (vapors)

Results: Positive, NOAEL = 2.5%

N-BUTYL ACETATE

Method: EPA OTS 798.2650

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: NOAEL = 125 mg / kg bw / day

Method: EPA OTS 798.2450

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC = 500 ppm

PROPANE

Method: OECD 422

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (gas)

Results: NOAEC 16 000 ppm

2-METHOXY-1-METHYLETHYL ACETATE

Method: OECD Guideline 422

Reliability: 2

Species: Rat (Crj: CD (SD); male / female)

Route of exposure: Oral

Results: NOAEL 1000 mg / kg / day

Method: OECD Guideline 453

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Inhalation (vapors)

Results: NOEL 300 ppm

Method: Equivalent or similar from OECD 410

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal

Results: NOAEL > 1 000 mg / kg bw / day

BUTANE

Method: OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (gas)

Results: NOAEC = 10000 ppm

ISOBUTANE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

BUTANOL

Method: OECD SIDS n-Butyl Alcohol

SPRAY STRUCTURE PAINT

Reliability: 1
Species: Rat (Sprague-Dawley; male / female)
Route of exposure: Oral
Results: NOEL 125 mg / kg bw / day
Method: EPA OTS 798.2450
Reliability: 1
Species: Rat (Sprague-Dawley)
Route of exposure: Inhalation (vapors)
Results: NOEL 500 ppm

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information**12.1. Toxicity**

N-BUTYL ACETATE

| | |
|---|--------------|
| LC50 - for Fish | 18 mg/l/96h |
| EC50 - for Crustacea | 44 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | 397 mg/l/72h |
| EC10 for Algae / Aquatic Plants | 196 mg/l/72h |
| Chronic NOEC for Algae / Aquatic Plants | 196 mg/l |

METHYL OXIDE DIMETHYLETER

| | |
|-----------------------------------|------------------|
| LC50 - for Fish | 4100 mg/l/96h |
| EC50 - for Crustacea | 4400 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | 154,917 mg/l/72h |
| Chronic NOEC for Fish | 4100 mg/l |

SPRAY STRUCTURE PAINT

Chronic NOEC for Crustacea

4400 mg/l

12.2. Persistence and degradability

ACETONE

Easily degradable in water, 90.9% in 28 days.

N-BUTYL ACETATE

Easily degradable in water, 83% in 28 days.

2-METHOXY-1-METHYLETHYL ACETATE

Rapidly biodegradable, from 70.5% to 93.4% in 45 days.

BUTANE

Quickly degradable in water.

BUTANOL

Quickly biodegradable, 92% in 15 days.

BUTANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

ACETONE

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water

> 10000 mg/l

Rapidly degradable

PROPANE

Solubility in water

0,1 - 100 mg/l

Rapidly degradable

BUTANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE

Solubility in water

1000 - 10000 mg/l

METHYL OXIDE DIMETHYLETER

Solubility in water

45600 mg/l

12.3. Bioaccumulative potential

BUTANE

Partition coefficient: n-octanol/water

1,09

ACETONE

Partition coefficient: n-octanol/water

-0,23

BCF

3

2-METHOXY-1-METHYLETHYL ACETATE

SPRAY STRUCTURE PAINT

Partition coefficient: n-octanol/water

1,2

PROPANE

Partition coefficient: n-octanol/water

1,09

BUTANOL

Partition coefficient: n-octanol/water

1

BCF

3,16

N-BUTYL ACETATE

Partition coefficient: n-octanol/water

2,3

BCF

15,3

METHYL OXIDE DIMETHYLETER

Partition coefficient: n-octanol/water

0,07 Log Kow

12.4. Mobility in soil

BUTANOL

Partition coefficient: soil/water

0,388

N-BUTYL ACETATE

Partition coefficient: soil/water

< 3

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

ACETONE

SPRAY STRUCTURE PAINT

Incinerate as hazardous waste according to applicable local, state and federal regulations. Do not throw in household waste.

METHYL OXIDE DIMETHYLETER

It can be used after reconditioning. In accordance with local and national regulations. It must be incinerated in a suitable incineration plant in possession of an authorization issued by the competent authorities.

2-METHOXY-1-METHYLETHYL ACETATE

This product, when disposed of in its unused and uncontaminated state, must be treated as hazardous waste according to EC Directive 91/689 / EEC. Disposal practices must comply with all national and provincial laws and local or local laws governing hazardous waste. Further evaluation may be required for used, contaminated and residual materials. Do not discharge into sewers, onto the ground or into any body of water.

BUTANE

No waste key number according to the European list of waste types can be assigned to this product, since this classification is based on the use (not yet determined) for which the product is intended for the consumer.

The key number for the waste must be determined according to the European waste type list (decision on the EU waste type list 2000/532 / EC) in collaboration with the disposal company / producer / authority Official.

ISOBUTANE

Compliance with local regulations, e.g. incineration through flaring system.

No waste key number according to the European list of waste types can be assigned to this product, since this classification is based on the use (not yet determined) for which the product is intended for the consumer.

The key number for the waste must be determined according to the European waste type list (decision on the EU waste type list 2000/532 / EC) in collaboration with the disposal company / producer / authority Official.

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, 1950
IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS
IMDG: AEROSOLS
IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1

**14.4. Packing group**

ADR / RID, IMDG, -
IATA:

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

| | | | |
|------------|---------------------------------------|--------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: -- | Limited Quantities: 1 L | Tunnel restriction code: (D) |
| | Special provision: 190, 327, 344, 625 | | |
| IMDG: | EMS: F-D, S-U | Limited Quantities: 1 L | |
| IATA: | Cargo: | Maximum quantity: 150 Kg | Packaging instructions: 203 |
| | Pass.: | Maximum quantity: 75 Kg | Packaging instructions: 203 |
| | Special provision: | A145, A167, A802 | |

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

| | |
|---------|----|
| Product | |
| Point | 40 |

| | |
|---------------------|----|
| Contained substance | |
| Point | 75 |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor
The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.
All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

SPRAY STRUCTURE PAINT

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

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|--------------------------|--|
| Flam. Gas 1A | Flammable gas, category 1A |
| Aerosol 1 | Aerosol, category 1 |
| Aerosol 3 | Aerosol, category 3 |
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Press. Gas | Pressurised gas |
| Press. Gas (Liq.) | Liquefied gas |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H225 | Highly flammable liquid and vapour. |
| H280 | Contains gas under pressure; may burst if heated. |
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |

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H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.