



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
This SDS is for generic information purposes and does not reflect required country specific information for OEL

SIMSON PREP M
Supersedes Date: 23-May-2022

Revision date 06-Dec-2022
Revision Number 1.11

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

1.1. Product identifier

Product Name SIMSON PREP M

Other means of identification

Pure substance/mixture Mixture

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

Recommended use Primers

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik GmbH
An der Bundesstrasse 16
33829 Borgholzhausen, Germany
Tel: +49 (0) 5425 / 801 0
Fax: +49 (0) 5425 / 801 140

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|---------------------|
| Aspiration hazard | Category 1 - (H304) |
| Skin corrosion/irritation | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Reproductive toxicity | Category 2 - (H361) |
| Specific target organ toxicity — single exposure | Category 3 - (H336) |
| Chronic aquatic toxicity | Category 2 - (H411) |
| Flammable liquids | Category 2 - (H225) |

2.2. Label elements

Contains Alkanes, C7-10-iso-, Butyl titanate, Toluene

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Signal word
Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H318 - Causes serious eye damage
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H411 - Toxic to aquatic life with long lasting effects
H225 - Highly flammable liquid and vapour

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

Special provisions concerning the labelling of certain mixtures

Restricted to professional users.

Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | EC No (EU Index No). | CAS No. | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|---------------|----------------------|---------|---|------------------------------------|----------|----------------------|---------------------------|
| | | | | | | | |

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| | | | | | | | |
|-------------------------------|-----------------------------|------------|--|---|---|---|-----------------------|
| Alkanes, C7-10-iso-80 - 100 % | 292-458-5 | 90622-56-3 | STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225) | - | - | - | 01-2119471305-42-XXXX |
| Butyl titanate 5 - <10 % | 227-006-8 | 5593-70-4 | STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Flam Liq. 3 (H226) | - | - | - | 01-2119967423-33-XXXX |
| Toluene 1 - <5 % | (601-021-00-3) 203-625-9 | 108-88-3 | Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412) Flam. Liq. 2 (H225) | - | - | - | 01-2119471310-51-XXXX |
| Ethyl silicate 1 - <2.5 % | (014-005-00-0) 201-083-8 | 78-10-4 | Acute Tox. 4 (H332) Eye Irrit. 2 (H319) STOT SE 3 (H335) Flam. Liq. 3 (H226) | - | - | - | 01-2119496195-28-xxxx |

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

| Chemical name | EC No (EU Index No) | CAS No | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---------------------|-----------------------------|------------|-----------------|-------------------|---|--|--------------------------------------|
| Alkanes, C7-10-iso- | 292-458-5 | 90622-56-3 | - | - | - | - | - |
| Butyl titanate | 227-006-8 | 5593-70-4 | - | - | - | - | - |
| Toluene | (601-021-00-3) 203-625-9 | 108-88-3 | 5580 | 12000 | 30 | - | - |
| Ethyl silicate | (014-005-00-0) 201-083-8 | 78-10-4 | - | - | 4.9 | 11 | - |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | If medical advice is needed, have product container or label at hand. |
| Inhalation | Remove to fresh air. Aspiration into lungs can produce severe lung damage. Delayed pulmonary edema may occur. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist. |
| Skin contact | Wash off immediately with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/attention. |

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Ingestion Do NOT induce vomiting. Call a doctor immediately. If swallowed, rinse mouth with water (only if the person is conscious). ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition.

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

Symptoms Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Difficulty in breathing.

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

Note to doctors Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances. Delayed pulmonary edema may occur.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapours or mists. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Prevent further leakage or spillage if safe to do so.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Take precautionary measures against static discharges.

Prevention of secondary hazards Eliminate all ignition sources if safe to do so.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use with local exhaust ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour or mist. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Take precautionary measures against static discharges.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store in accordance with the particular national regulations.

Recommended storage temperature Keep at temperatures between 5 and 25 °C.

7.3. Specific end use(s)

Specific use(s)
Primers.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

| Chemical name | European Union |
|---------------------------|--|
| Toluene 108-88-3 | TWA: 50 ppm TWA: 192 mg/m ³ * |
| Ethyl silicate 78-10-4 | TWA: 44 mg/m ³ TWA: 5 ppm |

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)

Butyl titanate (5593-70-4)

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| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| worker Long term Systemic health effects | Inhalation | 127 mg/m ³ | |

| Toluene (108-88-3) | | | |
|--|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Long term Systemic health effects worker | Dermal | 384 mg/kg bw/d | |
| Long term Systemic health effects Local health effects worker | Inhalation | 192 mg/m ³ | |
| Short term Systemic health effects worker | Inhalation | 384 mg/m ³ | |
| worker Long term Local health effects | Inhalation | 192 mg/m ³ | |
| worker Short term Local health effects | Inhalation | 384 mg/m ³ | |

| Ethyl silicate (78-10-4) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Short term Systemic health effects | Dermal | 12.1 mg/kg bw/d | |
| worker Systemic health effects Long term | Dermal | 12.1 mg/kg bw/d | |
| worker Short term Systemic health effects | Inhalation | 85 mg/m ³ | |
| worker Short term Local health effects | Inhalation | 85 mg/m ³ | |
| worker Long term Systemic health effects | Inhalation | 85 mg/m ³ | |
| worker Long term Local health effects | Inhalation | 85 mg/m ³ | |

| Derived No Effect Level (DNEL) | | | |
|--|----------------|--------------------------------|---------------|
| Butyl titanate (5593-70-4) | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Long term Systemic health effects | Inhalation | 152 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 37.5 mg/kg bw/d | |
| Consumer | Oral | 3.75 mg/kg bw/d | |

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| | | | |
|--------------------------------------|--|--|--|
| Long term Systemic health effects | | | |
|--------------------------------------|--|--|--|

| Toluene (108-88-3) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Long term Systemic health effects | Inhalation | 56.5 mg/m ³ | |
| Consumer Short term Systemic health effects | Inhalation | 226 mg/m ³ | |
| Consumer Long term Local health effects | Inhalation | 56 mg/m ³ | |
| Consumer Local health effects Short term | Inhalation | 226 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 226 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 8.13 mg/kg bw/d | |

| Ethyl silicate (78-10-4) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Short term Systemic health effects | Dermal | 8.4 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Dermal | 8.4 mg/kg bw/d | |
| Consumer Short term Systemic health effects | Inhalation | 25 mg/m ³ | |
| Consumer Short term Local health effects | Inhalation | 25 mg/m ³ | |
| Consumer Long term Systemic health effects | Inhalation | 25 mg/m ³ | |
| Consumer Long term Local health effects | Inhalation | 25 mg/m ³ | |

Predicted No Effect Concentration (PNEC) No information available.
(PNEC)

| Predicted No Effect Concentration (PNEC) | |
|---|--|
| Butyl titanate (5593-70-4) | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.08 mg/l |
| Marine water | 0.008 mg/l |
| Microorganisms in sewage treatment | 65 mg/l |
| Freshwater sediment | 0.0687 mg/kg dry weight |
| Marine sediment | 0.0069 mg/kg dry weight |
| Soil | 0.0168 mg/kg dry weight |

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| Toluene (108-88-3) | |
|---------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.68 mg/l |
| Marine water | 0.68 mg/l |
| Sewage treatment plant | 13.61 mg/l |
| Freshwater sediment | 16.39 mg/kg dry weight |
| Marine sediment | 16.39 mg/kg dry weight |
| Soil | 2.89 mg/kg dry weight |

| Ethyl silicate (78-10-4) | |
|---------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.192 mg/l |
| Marine water | 0.0192 mg/l |
| Freshwater sediment | 0.18 mg/kg dry weight |
| Marine sediment | 0.018 mg/kg dry weight |
| Soil | 0.05 mg/kg |

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles. Eye protection must conform to standard EN 166.

Hand protection

Wear suitable gloves. Recommended Use: Fluoro carbon rubber (FKM). Glove thickness > 0.7mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 240 min. Gloves must conform to standard EN 374

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

Recommended filter type:

Organic gases and vapours filter conforming to EN 14387. Brown. White.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------|--------------------------|
| Physical state | Liquid |
| Colour | Light yellow |
| Odour | Slight. Solvent. |
| Odour threshold | No information available |

| Property | Values | Remarks • Method |
|--|------------------------------|-------------------------------------|
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling range | 116 - 142 °C | |
| Flammability | Not applicable for liquids . | |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | 7.0 Vol.% | |
| Lower flammability or explosive limits | 0.9 Vol.% | |
| Flash point | approx 3 °C | ISO 13736 |
| Autoignition temperature | 370 °C | |
| Decomposition temperature | | None known |
| pH | No data available | Not applicable. Insoluble in water. |
| pH (as aqueous solution) | No data available | |
| Kinematic viscosity | 1 mm ² /s | DIN 51562 |
| Dynamic viscosity | 0.76 mPa s | |

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| | | |
|----------------------------|--------------------------|-------------|
| Water solubility | Insoluble in water. | |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapour pressure | 50 | hPa @ 25 °C |
| Relative density | 0.76 | |
| Bulk Density | No data available | |
| Density | 0.76 g/cm ³ | |
| Relative vapour density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

Solid content (%) approx 17
VOC content No data available

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Protect from moisture.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

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Product Information

| | |
|---------------------|--|
| Inhalation | May cause drowsiness or dizziness. |
| Eye contact | Causes serious eye damage. |
| Skin contact | Causes skin irritation. |
| Ingestion | Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Based on available data, the classification criteria are not met

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 246.20 mg/l
ATEmix (inhalation-vapour) 786.50 mg/l

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------|--|---|--|
| Alkanes, C7-10-iso- | >10000 ?L/kg (Rattus) | > 3160 µL/kg (Oryctolagus cuniculus) | >4504 ppm (Rattus) 4 h |
| Butyl titanate | =3122 mg/kg (Rattus) | >5000 mg/Kg (Oryctolagus cuniculus) | - |
| Toluene | =5580 mg/kg (Rattus) | = 12000 mg/kg (Oryctolagus cuniculus) | >20 mg/L (Rattus) 4 h |
| Ethyl silicate | LD50 > 2500 mg/kg (Rattus) OECD 423 | = 5878 mg/kg (Oryctolagus cuniculus) = 6300 µL/kg (Oryctolagus cuniculus) | = 10 mg/L (Rat male) 4 h > 16.8 mg/L (Rat female) 4 h |

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

Skin corrosion/irritation Irritating to skin.

Toluene (108-88-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--|---------|----------------|----------------|---------------|----------|
| Regulation (EC) No. 440/2008, Annex, B.4 | Rabbit | Dermal | | | Irritant |

Serious eye damage/eye irritation Risk of serious damage to eyes.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Toluene (108-88-3)

| Method | Species | Exposure route | Results |
|--|------------|----------------|--|
| Regulation (EC) No. 440/2008, Annex, B.6 (Maximisation test) | Guinea pig | | No sensitisation responses were observed |

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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Component Information
Toluene (108-88-3)

| Method | Species | Results |
|---|------------------------|---------------|
| Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test) | Salmonella typhimurium | Not mutagenic |
| OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test | Mouse | Not mutagenic |

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---------------|----------------|
| Toluene | Repr. 2 |

Toluene (108-88-3)

| Method | Species | Results |
|----------|---------|-----------------------|
| OECD 407 | in vivo | reproductive toxicant |

STOT - single exposure May cause drowsiness or dizziness.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Toluene (108-88-3)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|--|-------------------|--------------------|----------------|---------------|-------------------|
| Regulation (EC) No. 440/2008, Annex, B.26 | Rat, male, female | Oral | | 91 days | NOAEL: 625 mg/kg |
| OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies | Rat, male, female | Inhalation, vapour | | | NOAEL: 1.131 mg/l |

Aspiration hazard May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|---------------|----------------------|------|----------------------------|-----------|----------|----------------------|
|---------------|----------------------|------|----------------------------|-----------|----------|----------------------|

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|-------------------------------|---|---|-------------------------|--|--|--|
| Alkanes, C7-10-iso-90622-56-3 | - | 18.4 mg/L (Oncorhynchus mykiss) | - | EL50 (48h)= 2.4 mg/L (Daphnia magna) | | |
| Butyl titanate 5593-70-4 | - | 1825 mg/l | - | 1300 mg/l (Daphnia magna) | | |
| Toluene 108-88-3 | EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata) | LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static) | EC50 = 19.7 mg/L 30 min | EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna) | | |
| Ethyl silicate 78-10-4 | EC 50 (72h) > 100 mg/L (Pseudokirchneriella subcapitata) OECD 201 | LC50 (96h) > 245 mg/L (Danio rerio) EU Method C.1 | - | - | | |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|----------------|-----------------------|
| Butyl titanate | 0.84 |
| Toluene | 3.93 |
| Ethyl silicate | 3.18 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|----------------|---|
| Butyl titanate | The substance is not PBT / vPvB |
| Toluene | The substance is not PBT / vPvB PBT assessment does not apply |
| Ethyl silicate | The substance is not PBT / vPvB PBT assessment does not apply |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Waste from residues/unused products | Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable. |
| Contaminated packaging | Handle contaminated packages in the same way as the product itself. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. |
| European Waste Catalogue | 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances |
| Other information | Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|---|
| 14.1 UN number or ID number | UN1993 |
| 14.2 Proper Shipping Name | Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate) |
| 14.3 Transport hazard class(es) | 3 |
| Labels | 3 |
| 14.4 Packing group | II |
| Description | UN1993, Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate), 3, II, (D/E), Environmentally Hazardous |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | 274, 601, 640C |
| Classification code | F1 |
| Tunnel restriction code | (D/E) |
| Limited quantity (LQ) | 1 L |
| ADR Hazard Id (Kemmler Number) | 33 |

IMDG

| | |
|---|---|
| 14.1 UN number or ID number | UN1993 |
| 14.2 Proper Shipping Name | Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate) |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| Description | UN1993, Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate), 3, II, (3°C c.c.), Marine Pollutant |
| 14.5 Marine pollutant | P |
| 14.6 Special Provisions | 274 |
| Limited Quantity (LQ) | 1 L |
| EmS-No | F-E, S-E |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |

Air transport (ICAO-TI / IATA-DGR)

| | |
|--|---|
| 14.1 UN number or ID number | UN1993 |
| 14.2 Proper Shipping Name | Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate) |
| 14.3 Transport hazard class(es) | 3 |
| 14.4 Packing group | II |
| Description | UN1993, Flammable liquid, n.o.s. (Alkanes, C7-10-iso-, Butyl titanate), 3, II |
| 14.5 Environmental hazards | Yes |
| 14.6 Special Provisions | A3 |
| Limited quantity (LQ) | 1 L |
| ERG Code | 3H |

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Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name | CAS No | Restricted substance per REACH Annex XVII |
|---------------|----------|---|
| Toluene | 108-88-3 | 48. |

48

Reserved for industrial and professional use

Adhesives or spray paint shall not be placed on the market containing above substance equal to or greater than 0.1% where supplied to the general public

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

| | |
|-----------------------|------|
| aromatic hydrocarbons | < 5% |
|-----------------------|------|

National regulations

France

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Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number |
|---------------------|-------------------------|
| Toluene 108-88-3 | RG 4bis, RG 84 RG 84 |

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

Flammable liquid (R11), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 4

Water hazard class (WGK) obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class Storage Class 3 : Flammable liquids

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

| Chemical name | Netherlands - List of Carcinogens |
|---------------------|-----------------------------------|
| Toluene 108-88-3 | Development (Category 2) |

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

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ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG: International Maritime Dangerous Goods
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| AGW | Occupational exposure limit value | BGW | Biological limit value |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - Vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set

| | |
|----------------------------|---|
| Prepared By | Product Safety & Regulatory Affairs |
| Revision date | 06-Dec-2022 |
| Revision note | SDS sections updated: 2 3 9 10 11 15 16 |
| Training Advice | When working with hazardous materials, regular training of operators is required by law |
| Further information | No information available |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet