

Trade name : Revision date : Print date : Aluminiumbronze 283 25.02.2022 25.02.2022

Version (Revision) :

19.0.0 (18.0.1)

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

1.1 Product identifier

Aluminiumbronze 283

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

Products Category [PC]

PC 9 - Coatings and paints, fillers, putties, thinners.

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG www.brillux.de

Street: Weseler Straße 401

Postal code/City: D - 48163 Münster

Telephone: +49 (0)251-7188-0

Telefax: +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.): (Giftinformationszentrum-Nord, Göttingen, consultation in german or english language) Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour. STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness. Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07) Signal word Warning Hazard components for labelling N-BUTYL ACETATE ; CAS No. : 123-86-4

Hazard statements

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| H226 | Flammable liquid and vapour. |
|---------------------|--|
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary state | ments |
| P261 | Avoid breathing vapours. |
| P501 | Dispose of contents/container to approved disposal company or local collection. |
| P102 | Keep out of reach of children. |
| 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. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| Supplemental hazar | d information |

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Mixture based on components, which are called following, and other components.

Hazardous ingredients

| N-BUTYL ACETATE ; REACH No. : 01-2 | 2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4 | |
|--|---|--|
| Weight fraction : | ≥ 20 - < 25 % | |
| Classification 1272/2008 [CLP] : | Flam. Liq. 3 ; H226 STOT SE 3 ; H336 EUH066 | |
| ALUMINIUM POWDER ; REACH No. : 0 | 01-2119529243-45 ; EC No. : 231-072-3; CAS No. : 7429-90-5 | |
| Weight fraction : | ≥ 10 - < 20 % | |
| Classification 1272/2008 [CLP] : | Flam. Sol. 1 ; H228 | |
| ETHYLBENZENE ; REACH No. : 01-2119489370-35 ; EC No. : 202-849-4; CAS No. : 100-41-4 | | |
| Weight fraction : | ≥ 1 - < 10 % | |
| Classification 1272/2008 [CLP] : | Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332 | |
| HYDROCARBONS, C9, AROMATICS ; R | EACH No. : 01-2119455851-35 ; EC No. : 918-668-5 | |
| Weight fraction : | ≥ 2,5 - < 10 % | |
| Classification 1272/2008 [CLP] : | Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411 EUH066 | |
| XYLENE ; REACH No. : 01-2119488216 | 6-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7 | |
| Weight fraction : | ≥ 1 - < 10 % | |
| Classification 1272/2008 [CLP] : | Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 | |
| | | |

Additional information

The used hydrocarbons contain no benzene or benzene in concentrations less than 0.1 percent by weight and fulfil therefore the default(handicap) of the remark P to the appendix VI of the order (EC) No. 1272/2008 (GHS order). For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures



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4.1 Description of first aid measures

General information

Immediately remove all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical adivce if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Headache, dizziness, giddiness, skin irritation, eye iriitation and irritation to respiratory tract are possible.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO2, powders or water spray for extinction.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.



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6.3 Methods and material for containment and cleaning up

For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Ensure adequate ventilation. The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

6.4 Reference to other sections

See Section 7 for information on safe handling. You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Ensure a good ventilation in room and working area. Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Avoid concentrations which form ignitable or explosive vapour and air mixtures. Likewise, avoid any concentration of vapour above the MAC-valve. Keep away from ignition sources - No smoking. Ground/bond container and receiving equipment. Use explosion-proof pipes, electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Measures to prevent aerosol and dust generation

Do not breathe gas or spray.

Advices on general occupational hygiene

While working do not eat , drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs. **Storage class (TRGS 510) :** 3

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : Product code in accordance with GISBAU (hazardous materials information system of the German professional associations of the building and construction industry) for colours and varnishes (GISCODE): BSL50

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

N-BUTYL ACETATE ; CAS No. : 123-86-4

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| Limit value type (country of origin) : Limit value : | TRGS 900 (D) 62 ppm / 300 mg/m ³ |
|---|---|
| Peak limitation : | 2(I) |
| Remark : | Y |
| Version : | 02.07.2021 |
| ALUMINIUM POWDER ; CAS No. : 742 | |
| Limit value type (country of origin) : | |
| Parameter : | E: inhalable fraction |
| Limit value : Peak limitation : | 10 mg/m ³ 2(II) |
| Version : | 2(11) |
| Limit value type (country of origin) : | TRGS 900 (D) |
| Parameter : | A: respirable fraction |
| Limit value : | 1,35 mg/m ³ |
| Peak limitation : | 2(II) |
| Version : | |
| ETHYLBENZENE ; CAS No. : 100-41-4 | |
| Limit value type (country of origin) : | |
| Limit value : Peak limitation : | 20 ppm / 88 mg/m ³ |
| Remark : | 2(II) H, Y, DFG |
| Version : | 02.07.2009 |
| HYDROCARBONS, C9, AROMATICS | |
| Limit value type (country of origin) : | TRGS 900 (D) |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Group limit for the calculation of the occupational exposure limit for hydrocarbon |
| Parameter : | mixtures (see section 2.9 of Technical Rule 900). |
| Limit value : | 50 mg/m ³ |
| Version : | |
| XYLENE ; CAS No. : 1330-20-7 | |
| Limit value type (country of origin) : Limit value : | 100 ppm / 440 mg/m ³ |
| Peak limitation : | 4 |
| Version : | 01.10.1993 |
| Remark | |
| | ctor 2 (II) according to the german TRGS 900. |
| - | ntioned in the TRGS 900 for the supervision of AGW. |
| Biological limit values | |
| ALUMINIUM POWDER ; CAS No. : 742 | |
| Limit value type (country of origin) : | |
| Parameter : | Aluminium / Urine (U) / At long term exposure: after several previous shifts |
| Limit value : Version : | 50 μg/g Creatinine 31.03.2004 |
| ETHYLBENZENE ; CAS No. : 100-41-4 | 51.05.2001 |
| Limit value type (country of origin) : | TRGS 903 (D) |
| Parameter : | Mandelic acid plus phenylglyoxylic acid / Urine (U) / End of exposure or end of shift |
| Limit value : | 250 mg/g Creatinine |
| Version : | 31.03.2004 |
| XYLENE ; CAS No. : 1330-20-7 | |
| Limit value type (country of origin) : | |
| Parameter : | Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift |
| Limit value : | 2000 mg/l |
| Version : | 01.10.1993 |
| DNEL-/PNEC-values | |
| DNEL/DMEL | |
| | |

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|-----------------------------------|--------------------------|
| | |
| Limit value type : | DNEL Consumer (systemic) |
| Exposure route : | Inhalation |
| Exposure frequency : | Long-term |
| Limit value : | 102,34 mg/m ³ |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Inhalation |
| Exposure frequency : | Short-term |
| Limit value : | 96 mg/kg |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Inhalation |
| Exposure frequency : | Long-term |
| Limit value : | 48 mg/m ³ |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Dermal |
| Exposure frequency : | Long-term |
| Limit value : | 7 mg/kg |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Inhalation |
| Exposure frequency : | Long-term |
| Limit value : | 480 mg/m ³ |
| HYDROCARBONS, C9, AROMATICS | |
| Limit value type : | DNEL/DMEL (Consumer) |
| Exposure route : | Dermal |
| Exposure frequency : | Long-term |
| Limit value : | 11 mg/kg |
| Assessment factor : | 1 D |
| Limit value type : | DNEL/DMEL (Consumer) |
| Exposure route : | Inhalation |
| Exposure frequency : | Long-term |
| Limit value : | 32 mg/m ³ |
| Limit value type : | DNEL/DMEL (Consumer) |
| Exposure route : | Oral |
| Exposure frequency : | Long-term |
| Limit value : | 11 mg/kg |
| Assessment factor : | 1 D |
| ETHYLBENZENE ; CAS No. : 100-41-4 | 1 |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Inhalation |
| Exposure frequency : | Short-term |
| Limit value : | 289 mg/m ³ |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Inhalation |
| Exposure frequency : | Long-term |
| Limit value : | 77 mg/m ³ |
| Limit value type : | DNEL/DMEL (Industrial) |
| Exposure route : | Dermal |
| Exposure frequency : | Long-term |
| Limit value : | 180 mg/kg |
| HYDROCARBONS, C9, AROMATICS | ביי ופיוו ייי |
| Limit value type : | DNEL/DMEL (Professional) |
| Exposure route : | Dermal |
| Exposure frequency : | Long-term |
| Limit value : | 25 mg/kg |
| Assessment factor : | 25 mg/kg 1 D |
| | |
| | |



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DNEL/DMEL (Professional) Limit value type : Exposure route : Inhalation Exposure frequency : Long-term Limit value : 150 mg/m³ XYLENE ; CAS No. : 1330-20-7 Limit value type : DNEL/DMEL (Consumer) Exposure route : Inhalation Exposure frequency : Short-term 174 mg/m³ Limit value : Limit value type : DNEL/DMEL (Consumer) Exposure route : Inhalation Exposure frequency : Long-term 14,8 mg/m³ Limit value : DNEL/DMEL (Consumer) Limit value type : Exposure route : Oral Exposure frequency : Long-term Limit value : 1,6 mg/kg Assessment factor : 1 D DNEL/DMEL (Consumer) Limit value type : Exposure route : Dermal Long-term Exposure frequency : Limit value : 108 mg/kg Assessment factor : 1 D DNEL/DMEL (Professional) Limit value type : Inhalation Exposure route : Exposure frequency : Short-term Limit value : 289 mg/m³ DNEL/DMEL (Professional) Limit value type : Dermal Exposure route : Short-term Exposure frequency : 174 mg/m³ Limit value : Limit value type : DNEL/DMEL (Professional) Exposure route : Inhalation Exposure frequency : Lona-term Limit value : 77 mg/m³ PNEC N-BUTYL ACETATE ; CAS No. : 123-86-4 PNEC (Aquatic, freshwater) Limit value type : Exposure route : Water (Including sewage plant) Limit value : 0,18 mg/l Limit value type : PNEC (Aquatic, intermittent release) Exposure route : Water (Including sewage plant) Limit value : 0,36 mg/l Limit value type : PNEC (Aquatic, marine water) Exposure route : Water (Including sewage plant) Limit value : 0,018 mg/l Limit value type : PNEC (Sediment, freshwater) Exposure route : Soil Limit value : 0,981 mg/kg Limit value type : PNEC (Sediment, marine water) Exposure route : Soil 0,0981 mg/kg Limit value : PNEC soil Limit value type : Exposure route : Soil 0,0903 mg/kg Limit value :

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Limit value type : Exposure route : Limit value : XYLENE ; CAS No. : 1330-20-7 Limit value type : Exposure route : Limit value : Limit value type : Exposure route : Limit value : Limit value type : Exposure route : Limit value : Limit value type : Exposure route : Limit value :

PNEC (Sewage treatment plant) Water (Including sewage plant) 35,6 mg/l PNEC (Aquatic, freshwater) Water (Including sewage plant) 0,327 mg/l PNEC (Sediment, freshwater) Water (Including sewage plant) 12,46 mg/kg PNEC soil Soil 2,31 mg/kg PNEC (Sewage treatment plant) Water (Including sewage plant) 6,58 mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use protection glasses in case of spattering.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min. By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. A respiratory protection (combination filter A2-P3) is required by inadequate ventilation. Do not inhale the vapour.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : conformable to product designation.

Odour



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characteristic

Safety characteristics

| Melting point/freezing point : | (1013 hPa) | | No data available | | |
|--|--------------------|---------|-----------------------|-------------------|--------------|
| Initial boiling point and boiling range : | (1013 hPa) | | 124 | °C | |
| Decomposition temperature : | (1013 hPa) | | No data available | | |
| Flash point : | | | 27 | °C | |
| Auto-ignition temperature : | | | No data available | | |
| Lower explosion limit : | | | No data available | | |
| Upper explosion limit : | | | No data available | | |
| Vapour pressure: | (20 °C) | | no data available | | |
| Density : | (20 °C) | approx. | 1,05 | g/cm ³ | |
| Solvent separation test : | (20 °C) | < | 3 | % | |
| Water solubility : | (20 °C) | | practically insoluble | | |
| pH : | | | not applicable | | |
| log P O/W : | | | No data available | | |
| Flow time : | (20 °C) | | 20 - 29 | S | DIN-cup 4 mm |
| Viscosity : | (20 °C) | | No data available | | |
| Kinematic viscosity : | (40 °C) | > | 20,5 | mm²/s | |
| Relative vapour density : | (20 °C) | | No data available | | |
| VOC-value : | | max. | 500 | g/l | |
| Flammable liquids : | The product is ign | itable. | | | |
| Particle Characterics : | not applicable | | | | |
| | •• | | | | |

9.2 Other information

Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air. The formation of hydrogen is possible by the exposure of acids and bases.

10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

Cleaning cloths saturated with solvent can ignite themselves. Therefore ensure safe disposal of waste. Prevent evaporation to dryness.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

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

Acute toxicity

Acute toxicity:



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| - Acute oral toxicity: No da | |
|--|--|
| Acute dermal toxicity: No | , |
| Acute inhalation toxicity: | No data available. |
| Acute oral toxicity | |
| Parameter : | LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 6800 mg/kg |
| Parameter : | LD50 (ETHYLBENZENE; CAS No.: 100-41-4) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | 3500 mg/kg |
| Parameter : | LD50 (XYLENE ; CAS No. : 1330-20-7) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | 8700 mg/kg |
| Acute dermal toxicity | |
| Parameter : | LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6) |
| Exposure route : | Dermal |
| Species : | Rabbit |
| Effective dose : | > 3400 mg/kg |
| Parameter : | LD50 (ETHYLBENZENE ; CAS No. : 100-41-4) |
| Exposure route : | Dermal |
| Species : | Rabbit |
| Effective dose : | 5000 mg/kg |
| Parameter : | LD50 (XYLENE ; CAS No. : 1330-20-7) |
| Exposure route : | Dermal |
| Species : | Rabbit |
| Effective dose : | 2000 mg/kg |
| Acute inhalation toxicit | |
| Parameter : | LC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6) |
| Exposure route : | Inhalation |
| Species : | Rat |
| Effective dose : | > 10,2 mg/l |
| Exposure time : | 4 h |
| Parameter : | LC50 (ALUMINIUM POWDER (STABILIZED) ; CAS No. : 7429-90-5) |
| Exposure route : | Inhalation |
| Species : | Rat |
| Effective dose : | > 5 mg/l |
| Exposure time : | 4 h |
| Parameter : | LC50 (XYLENE ; CAS No. : 1330-20-7) |
| Exposure route : | Inhalation |
| Species : | Rat |
| Effective dose : | 6350 mg/l |
| Corrosion | |

Irritation:

- To the skin: Repeated exposure may cause skin dryness or cracking.

- At the eye: May cause mild, short-lasting discomfort to eyes.

- Respiratory tract: Irritation of the respiratory tract possible.

Respiratory or skin sensitisation

A sensitizing effect by the product is not known.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects). **STOT-single exposure**



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Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation, kidneys and liver damages, as well as leading the impairment of the central nervous system.

Symtoms and signs include headache: dizzines, fatique, muscular weakness, drowsiness and in extreme cases loss of consciouness.

The liquid splached in the eyes may cause irritation and reversible demage.

STOT-repeated exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin.

Aspiration hazard

The product contains substances, which are classified as apiration toxicity, category 1 (May be fatal if swallowed and enters airways), in accordance to the Regulation (EC) No. 1272/2008 (CLP-Regulation) in there pure form. Based on available data the classification criteria according to Regulation (EC) No 1272/2008 [CLP] are not fulfilled.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygenic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regualtion), listed in sections 2 and 3. At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and

the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

| Aquatic toxicity Acute (short-term) fish toxicity | |
|--|---|
| Parameter : | LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) |
| Species : | Pimephales promelas (fathead minnow) |
| Effective dose : | 18 mg/l |
| Exposure time : | 96 h |
| Parameter : | LC50 (HYDROCARBONS, C9, AROMATICS) |
| Species : | Oncorhynchus mykiss (Rainbow trout) |
| Effective dose : | 9,2 mg/l |
| Exposure time : | 96 h |
| Parameter : | LC50 (XYLENE ; CAS No. : 1330-20-7) |
| Species : | Oncorhynchus mykiss (Rainbow trout) |
| Effective dose : | 2,6 mg/l |
| Exposure time : | 96 h |
| Acute (short-term) toxicity to c | rustacea |
| Parameter : | EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) |
| Species : | Daphnia magna (Big water flea) |
| Effective dose : | 44 mg/l |
| Exposure time : | 48 h |
| Parameter : | EC50 (HYDROCARBONS, C9, AROMATICS) |
| Species : | Daphnia magna (Big water flea) |
| Effective dose : | 3,2 mg/l |
| Exposure time : | 48 h |
| Parameter : | EC50 (XYLENE ; CAS No. : 1330-20-7) |
| Species : | Daphnia magna (Big water flea) |



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| Effective dose : | 1 - 10 mg/l |
|-----------------------------------|---|
| Exposure time : | 48 h |
| Acute (short-term) toxicity to al | gae and cyanobacteria |
| Parameter : | EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) |
| Species : | Desmodesmus subspicatus |
| Effective dose : | 647,7 mg/l |
| Exposure time : | 72 h |
| Parameter : | EL50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) |
| Species : | Desmodesmus subspicatus |
| Effective dose : | 200 mg/l |
| Parameter : | ErC50 (HYDROCARBONS, C9, AROMATICS) |
| Species : | Pseudokirchneriella subcapitata |
| Effective dose : | 2,6 - 2,9 mg/l |
| Exposure time : | 72 h |
| Parameter : | IC50 (XYLENE ; CAS No. : 1330-20-7) |
| Species : | Scenedesmus subspicatus |
| Effective dose : | 2,2 mg/l |
| Toxicity to microorganisms | |
| Parameter : | EC50 (XYLENE ; CAS No. : 1330-20-7) |
| Species : | Bacteria toxicity |
| Effective dose : | 96 mg/l |
| Exposure time : | 24 h |
| orgistones and degradahili | the s |

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

Biodegradation

| Biodegradation (XYLENE; CAS No.: 1330-20-7) |
|---|
| Biodegradation |
| > 60 % |
| 28 D |
| |

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground. A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Harmful to aquatic life, may cause long-term adverse effects in the aquatic environment.

12.8 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage. The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations.

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Packaging with not dry uped residues have to droped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains. **Waste codes/waste designations according to EWC/AVV**

For the product:

Disposal-definition No.: 08 01 11* - Paint and varnish waste which contains organic solvents or other dangerous substances.

After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:

Disposal-definition No.: $15\ 01\ 10\ *$ packings which contain dangerous substances or are polluted by dangerous substances.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID) PAINT Sea transport (IMDG) PAINT Air transport (ICAO-TI / IATA-DGR) PAINT

14.3 Transport hazard class(es)

| ······································ | |
|--|--------------|
| Land transport (ADR/RID) | |
| Class(es) : | 3 |
| Classification code : | F1 |
| Hazard identification number (Kemler | |
| No.): | 30 |
| Tunnel restriction code : | D/E |
| Special provisions : | 640E · E 1 |
| Hazard label(s) : | 3 |
| Sea transport (IMDG) | |
| Class(es) : | 3 |
| EmS-No. : | F-E / S-E |
| Special provisions : | LQ 5 · E 1 |
| Hazard label(s) : | 3 |
| Air transport (ICAO-TI / IATA-DGR) | |
| Class(es) : | 3 |
| Hazard label(s) : | 3 |
| 14.4 Packing group | |
| | |

III

14.5 Environmental hazards Land transport (ADR/RID) : No Sea transport (IMDG) : No Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

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

Not relevant because the product in type of delivery does not transport in bulks according to the Internationa Maritime



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Organization (IMO) instruments.

14.8 Additional information

ADR/RID: Limited quantities.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline: Category i, type Lb;

VOC limiting value of the category for 2010: 500 g/l. This product contains max. 500 g/l VOC.

National regulations

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1. Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route) AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds ATEmix: Calculated acute toxicity estimate of mixture BCF: Bio-Concentration Factor CAS: Chemical Abstract Service CLP: Classification, Labelling and Packaging CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction CSR: Chemical Safety Report DNEL: Derived No Effect Level EC: European Commission EC50: Effective Concentration 50% ECHA: European Chemical Agency EEC: European Economic Community EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances EWC: European Waste Catalogue GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

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IMO: International Maritime Organization LC50: Lethal concentration 50% LD50: Lethal Dose 50% LOAEL: Lowest Observed Adverse Effect Level LOEL: Lowest observable effect level MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG) MARPOL: Convention for the Preventation of Marine Pollution from Ships MVZ: molar ratio n.a.: Not applicable n.d.: Not determined n.r.: Not relevant NLP: No Longer Polymers NOAEC: No Observed Adverse Effect Concentration NOAEL: No Observed Adverse Effect Level NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level **OEL:** Occupational Exposure Limit PBT: Persistent, bioaccumulative, toxic PNEC: Predicted No Effect Concentration RCP: Reciprocal calculation procedure REACH: Registration, Evaluation and Authorization of Chemical) RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer) STEL: Short-term Exposure Limit SVHC: Substance of Very High Concern TLV - TWA: Threshold Limit Value - Time Weighed Average VOC: Volatile Organic Compounds vPvB: Very persistent, very bioaccumulative. 16.3 Key literature references and sources for data

None

^{16.4} Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

| H225 | Highly flammable liquid and vapour. |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| | |

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of



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mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.