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

Revision date / version: 03.09.2021 / 0004

Replacing version dated / version: 26.05.2021 / 0003

Valid from: 03.09.2021 PDF print date: 03.09.2021 4F-Sealing 1K-PUR Faser 6 kg

Art.: 9095830

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

1.1 Product identifier

4F-Sealing 1K-PUR Faser 6 kg

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

Coating

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Hazard category | Hazard statement |
|-----------------|------------------------------------------------------|
| 3 | H226-Flammable liquid and vapour. |
| 2 | H373-May cause damage to organs through prolonged or |
| | repeated exposure (organs of hearing). |
| 2 | H319-Causes serious eye irritation. |
| 2 | H315-Causes skin irritation. |
| | Hazard category 3 2 2 2 |





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| Resp. Sens. | 1 | H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
|-----------------|---|---------------------------------------------------------------------------------|
| Skin Sens. | 1 | H317-May cause an allergic skin reaction. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| Aquatic Chronic | 3 | H412-Harmful to aquatic life with long lasting effects. |

2.2 Label elements

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



Danger

H226-Flammable liquid and vapour. H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). H319-Causes serious eye irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314-Get medical advice / attention if you feel unwell. P331-Do NOT induce vomiting.

EUH204-Contains isocyanates. May produce an allergic reaction.

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

As from 24 August 2023 adequate training is required before industrial or professional use. m-tolylidene diisocyanate

4,5-Dichloro-2-octyl-2H-isothiazol-3-one

Reaction mass of ethylbenzene and m-xylene and p-xylene

2.3 Other hazards

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

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 < 0.1 %).

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





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3.1 Substances

n a

3.2 Mixtures

| Reaction mass of ethylbenzene and m-xylene and p- | Substance for which an EU exposure limit |
|-------------------------------------------------------|------------------------------------------|
| xylene | value applies. |
| Registration number (REACH) | 01-2119488216-32-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 905-562-9 |
| CAS | |
| content % | 15-<20 |
| Classification according to Regulation (EC) 1272/2008 | Flam. Liq. 3, H226 |
| (CLP), M-factors | Acute Tox. 4, H312 |
| | Acute Tox. 4, H332 |
| | Skin Irrit. 2, H315 |
| | Eye Irrit. 2, H319 |
| | STOT SE 3, H335 |
| | STOT RE 2, H373 (organs of hearing) |
| | Asp. Tox. 1, H304 |
| | Aquatic Chronic 3, H412 |

| Titanium dioxide (in powder form containing 1 % or | |
|-------------------------------------------------------|-------------------------------|
| more of particles with aerodynamic diameter <= 10 μm) | |
| Registration number (REACH) | |
| Index | 022-006-002 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 236-675-5 |
| CAS | 13463-67-7 |
| content % | 2,5-<3 |
| Classification according to Regulation (EC) 1272/2008 | Carc. 2, H351 (as inhalation) |
| (CLP), M-factors | |

| m-tolylidene diisocyanate | |
|-------------------------------------------------------|------------------------------|
| Registration number (REACH) | 01-2119454791-34-XXXX |
| Index | 615-006-00-4 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 247-722-4 |
| CAS | 26471-62-5 |
| content % | 0,1-<0,5 |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 1, H330 |
| (CLP), M-factors | Skin Irrit. 2, H315 |
| | Eye Irrit. 2, H319 |
| | Resp. Sens. 1, H334 |
| | Skin Sens. 1, H317 |
| | Carc. 2, H351 |
| | STOT SE 3, H335 |
| | Aquatic Chronic 3, H412 |
| Specific Concentration Limits and ATE | Resp. Sens. 1, H334: >=0,1 % |

| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one | |
|------------------------------------------|--------------|
| Registration number (REACH) | |
| Index | 613-335-00-8 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 264-843-8 |
| CAS | 64359-81-5 |





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| content % | 0,0025-<0,025 |
|-------------------------------------------------------|-----------------------------------------|
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 2, H330 |
| (CLP), M-factors | Acute Tox. 4, H302 |
| | Skin Corr. 1, H314 |
| | Eye Dam. 1, H318 |
| | Skin Sens. 1A, H317 |
| | Aquatic Acute 1, H400 (M=100) |
| | Aquatic Chronic 1, H410 (M=100) |
| Specific Concentration Limits and ATE | Skin Irrit. 2, H315: >=0,025 % |
| | Eye Irrit. 2, H319: >=0,025 % |
| | Skin Sens. 1A, H317: >=0,0015 % |
| | ATE (oral): 567 mg/kg |
| | ATE (as inhalation, Mist): 0,16 mg/l/4h |

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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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

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

Skin contact

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

Eve contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Watering eyes

Drying of the skin.

Dermatitis (skin inflammation)

Allergic reaction possible.

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Ingestion:

Nausea

Vomiting





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Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrogen cyanide

Toxic gases

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

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

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.





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

6.3 Methods and material for containment and cleaning up

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

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special storage conditions.

Under all circumstances prevent penetration into the soil.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name Reaction mass of ethylbenzene and m-xylene and p-xylene | Content %:15-<20 |
|-----------------------------------------------------------------------|------------------|
|-----------------------------------------------------------------------|------------------|





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| WEL-TWA: 220 mg/m3 (5 | WEL-TWA: 220 mg/m3 (50 ppm) WEL-STEL: 100 ppm (441 mg/m3 | | | | |
|---------------------------------------------------------------|----------------------------------------------------------|-----------------------------|----------------------|---------|-------------|
| (WEL), 50 ppm (221 mg/m3 | (EU) | (WEL), 100 ppm (442 m | g/m3) (EU) | | |
| (Xylene), 100 ppm (441mg | /m3) (WEL), | (Xylene), 125 ppm (552 | mg/m3) (WEL), | | |
| 100 ppm (442 mg/m3) (EU) 200 ppm (884 mg/m3) (EU) | | | | | |
| (Ethylbenzene) | | (Ethylbenzene) | | | |
| Monitoring procedures: | J | NSHT MTA/MA-030/A92 | 2 (Determination of | aromati | c |
| | ł | nydrocarbons (benzene, tol | luene, ethylbenzene, | p-xyler | ne, 1,2,4- |
| | t | rimethylbenzene) in air - C | Charcoal tube metho | d / Gas | |
| | (| chromatography) - 1992 - I | EU project BC/CEN | /ENTR/ | 000/2002-16 |
| | | eard 47-1 (2004) | 1 3 | | |
| - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 | | | | | |
| - Draeger - Hydrocarbons 0,1%/c (81 03 571) | | | | | |
| - Draeger - Hydrocarbons 2/a (81 03 581) | | | | | |
| BMGV: 650 mmol methyl | | | Other information | : Sk (| WEL) |
| post shift (Xylene, o-, m-, p- | | | (Xylene), Sk (WI | | |
| (B) | Titonium diov | ide (in powder form conta | ining 1 % or more o | f | Content |
| Chemical Name | | aerodynamic diameter <= | | ı | %:2,5-<3 |
| WELTWA 10 / 20 | | | 10 μιιι) | | %.2,3-<3 |
| WEL-TWA: 10 mg/m3 (to | | WEL-STEL: | | | |
| dust), 4 mg/m3 (respirable dust) | ust) | | | | |
| Monitoring procedures: | | | | | |
| DMCV. | | | 041: | | |

| BMGV: | Other information | : | | | | |
|-------------------------------------------------------------------------------------------|------------------------|--------------|--------------------|------------------|--------------------|--|
| Chemical Name | m-tolylidene o | liisocyanate | | | Content %:0,1-<0,5 | |
| WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m | | | g/m3 (Isocyanates, | m3 (Isocyanates, | | |
| all (as -NCO)) all (as -NCO)) | | | | | | |
| Monitoring procedures: | Monitoring procedures: | | | | | |
| BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine | | | Other information | : Sen | (Isocyanates, | |
| (At the end of the period of exposure) | | | all (as -NCO)) | | | |

| © Chemical Name | Calcium carbo | onate | | | | Content %: |
|------------------------------|----------------|-----------|--|--------------------|--|------------|
| WEL-TWA: 4 mg/m3 (res | pirable dust), | WEL-STEL: | | | | |
| 10 mg/m3 (total inhalable du | ist) | | | | | |
| Monitoring procedures: | | | | | | |
| BMGV: | | | | Other information: | | |

| Reaction mass of ethyl | Reaction mass of ethylbenzene and m-xylene and p-xylene | | | | | | |
|------------------------|---------------------------------------------------------|------------------|----------|-------|-------|------|--|
| Area of application | Exposure route / | Effect on health | Descript | Value | Unit | Note | |
| | Environmental | | or | | | | |
| | compartment | | | | | | |
| | Environment - | | PNEC | 0,327 | mg/l | | |
| | freshwater | | | | | | |
| | Environment - marine | | PNEC | 0,327 | mg/l | | |
| | Environment - | | PNEC | 12,46 | mg/kg | | |
| | sediment, freshwater | | | | | | |
| | Environment - | | PNEC | 12,46 | mg/kg | | |
| | sediment, marine | | | | | | |
| | Environment - soil | | PNEC | 2,31 | mg/kg | | |
| | Environment - | | PNEC | 6,58 | mg/l | | |
| | sewage treatment | | | | | | |
| | plant | | | | | | |





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| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 221 | mg/m3 | |
|---------------------|--------------------|--------------------------------|------|-----|-------|---|
| Workers / employees | Human - inhalation | Short term, | DNEL | 442 | mg/m3 | |
| | | systemic effects | | | | ĺ |

| Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) | | | | | | | | |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------|----------------|------------|---------------|------|--|--|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descript or | Value | Unit | Note | | |
| | Environment - freshwater | | PNEC | 0,184 | mg/l | | | |
| | Environment - marine | | PNEC | 0,018 4 | mg/l | | | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,193 | mg/l | | | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | | | |
| | Environment - sediment, freshwater | | PNEC | 1000 | mg/kg dw | | | |
| | Environment - sediment, marine | | PNEC | 100 | mg/kg dw | | | |
| | Environment - soil | | PNEC | 100 | mg/kg dw | | | |
| | Environment - oral (animal feed) | | PNEC | 1667 | mg/kg feed | | | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 700 | mg/kg bw/d | | | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 10 | mg/m3 | | | |

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- $(8) = Inhalable\ fraction\ (2017/164/EU,\ 2017/2398/EU).\ (9) = Respirable\ fraction\ (2017/164/EU,\ 2017/2398/EU).$ $(10) = Short\text{-term}\ exposure\ limit\ value\ in\ relation\ to\ a\ reference\ period\ of\ 1\ minute\ (2017/164/EU).\ |\ BMGV=Biological\ monitoring\ guidance\ value\ EH40.\ BGW="Biologischer\ Grenzwert"\ (biological\ limit\ value,\ Germany)\ |\ Other\ information:\ Sen=Capable\ of\ causing\ occupational\ asthma.\ Sk=Can\ be\ absorbed\ through\ skin.\ Carc=Capable\ of\ causing\ cancer\ and/or\ heritable\ genetic\ damage.$
- ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).





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8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

>=0.5

Protective gloves made of fluorocarbon rubber (EN ISO 374).

Minimum layer thickness in mm:

>= 0,4

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.





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In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: According to specification

Odour: Characteristic
Odour threshold: Not determined

pH-value: Mixture is non-soluble (in water).

Melting point/freezing point:

Not determined
Initial boiling point and boiling range:

Not determined

Flash point: 31 °C (Pensky-Martens, closed cup)

Evaporation rate: Not determined

Flammability (solid, gas): n.a.

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

1,35 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Not determined

Not determined

Auto-ignition temperature: 488 °C (Ignition temperature Reaction mass of

ethylbenzene and m-xylene and p-xylene)

Decomposition temperature: Not determined

Viscosity: >90 mPas (20°C, Dynamic viscosity)

Explosive properties: Product is not explosive. When using: development of

explosive vapour/air mixture possible.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined

Solvents content: 249 g/l (Organic solvents)





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SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| 4F-Sealing 1K-PUR Fase | er 6 kg | | | | | |
|----------------------------|---------|-------|---------|----------|-------------|------------|
| Art.: 9095830 | | | | | | |
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | | | | | | n.d.a. |
| route: | | | | | | |
| Acute toxicity, by | ATE | 6575 | mg/kg | | | calculated |
| dermal route: | | | | | | value |
| Acute toxicity, by | ATE | 28,4 | mg/l/4h | | | calculated |
| inhalation: | | | | | | value, |
| | | | | | | Vapours |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye | | | | | | n.d.a. |
| damage/irritation: | | | | | | |
| Respiratory or skin | | | | | | n.d.a. |
| sensitisation: | | | | | | |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ | | | | | | n.d.a. |
| toxicity - single | | | | | | |
| exposure (STOT-SE): | | | | | | |
| Specific target organ | | | | | | n.d.a. |
| toxicity - repeated | | | | | | |
| exposure (STOT-RE): | | | | | | |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

Reaction mass of ethylbenzene and m-xylene and p-xylene





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| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
|-------------------------|--------|-------|-------|------------|--------------------|-------------|
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | 3523 | mg/kg | Rat | Regulation (EC) | |
| route: | | | | | 440/2008 B.1 | |
| | | | | | (ACUTE ORAL | |
| | | | | | TOXICITY) | |
| Acute toxicity, by | LC50 | 6350 | ppm | Rat | Regulation (EC) | Vapours |
| inhalation: | | | | | 440/2008 B.2 | |
| | | | | | (ACUTE | |
| | | | | | TOXICITY | |
| | | | | | (INHALATION)) | |
| Germ cell mutagenicity: | | | | | OECD 478 | Negative, |
| | | | | | (Genetic | Analogous |
| | | | | | Toxicology - | conclusion |
| | | | | | Rodent dominant | |
| | | | | | Lethal Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 | Negative, |
| | | | | typhimuri | (Bacterial Reverse | Analogous |
| | | | | um | Mutation Test) | conclusion |
| Aspiration hazard: | | | | | | Asp. Tox. 1 |

| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
|------------------------------------|--------|-------|---------|------------|-----------------------------------------------------------------|-----------------------------------------------|
| | nt | | | | | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 425 (Acute Oral Toxicity - | |
| Toute. | | | | | Up-and-Down | |
| | | | | | Procedure) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | , | |
| Acute toxicity, by inhalation: | LD50 | >6,8 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosio n) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosio n) | Not irritant. Mechanical irritation possible. |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Not sensitizisin |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |





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| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
|----------------------------------------------------------------------------------|-------|------|-------------|-------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Germ cell mutagenicity: | | | | Mammalia n | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimuri um | (Ames-Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | No indications of such an effect. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | , | Not irritant (respiratory tract). |
| Symptoms: | | | | | | mucous membrane irritation, coughing, respiratory distress, drying of the skin. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 3500 | mg/kg/ d | Rat | | 90d |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 10 | mg/m3 | Rat | | 90d |

| m-tolylidene diisocyanate | | | | | | |
|---------------------------|--------|-------|-------|----------|-------------|-------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | 5800 | mg/kg | Rat | | |
| route: | | | | | | |





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| Symptoms: | | asthmatic |
|-----------|--|---------------|
| | | symptoms, |
| | | breathing |
| | | difficulties, |
| | | eyes, |
| | | reddened, |
| | | coughing, |
| | | mucous |
| | | membrane |
| | | irritation |

| 4,5-Dichloro-2-octyl-2H- | isothiazol-3 | 3-one | | | | |
|----------------------------|--------------|-------|---------|------------|---------------------|------------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | ATE | 567 | mg/kg | | | |
| route: | | | | | | |
| Acute toxicity, by | ATE | 0,16 | mg/l/4h | | | Dust, Mist |
| inhalation: | | | | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Corrosive |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosio | |
| | | | | | n) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | Skin Sens. |
| sensitisation: | | | | | Sensitisation) | 1A |
| Aspiration hazard: | | | | | | No |
| Specific target organ | NOAEL | 20 | mg/kg | Rat | | 28d |
| toxicity - repeated | | | | | | |
| exposure (STOT-RE), | | | | | | |
| oral: | | | | | | |
| Specific target organ | LOAEL | 100 | mg/kg | Rat | | 28d |
| toxicity - repeated | | | | | | |
| exposure (STOT-RE), | | | | | | |
| oral: | | | | | | |

| Calcium carbonate | | | | | | |
|-------------------------|--------|--------|---------|----------|------------------|-------|
| Toxicity / effect | Endpoi | Value | Unit | Organism | Test method | Notes |
| | nt | | | | | |
| Acute toxicity, by oral | LD50 | >2000 | mg/kg | Rat | OECD 420 (Acute | |
| route: | | | | | Oral toxicity - | |
| | | | | | Fixe Dose | |
| | | | | | Procedure) | |
| Acute toxicity, by oral | LD50 | > 5000 | mg/kg | Rat | | |
| route: | | | | | | |
| Acute toxicity, by | LD50 | >2000 | mg/kg | Rat | OECD 402 (Acute | |
| dermal route: | | | | | Dermal Toxicity) | |
| Acute toxicity, by | LC50 | >3 | mg/l/4h | Rat | OECD 403 (Acute | |
| inhalation: | | | | | Inhalation | |
| | | | | | Toxicity) | |





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| Skin corrosion/irritation: | Rabbit | OECD 404 (Acute | Not irritant |
|----------------------------|--------|---------------------|---------------|
| | | Dermal | |
| | | Irritation/Corrosio | |
| | | n) | |
| Serious eye | Rabbit | OECD 405 (Acute | Not irritant, |
| damage/irritation: | | Eye | Mechanical |
| | | Irritation/Corrosio | irritation |
| | | n) | possible. |
| Respiratory or skin | | | No (skin |
| sensitisation: | | | contact) |
| Germ cell mutagenicity: | | in vitro | Negative |
| Carcinogenicity: | | | Negative, |
| | | | administered |
| | | | as Ca-lactate |
| Reproductive toxicity: | | | Negative, |
| | | | administered |
| | | | as Ca- |
| | | | carbonate |

SECTION 12: Ecological information

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

| 4F-Sealing 1K-PUR Faser 6 kg Art.: 9095830 | | | | | | | |
|-----------------------------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to | | | | | | | n.d.a. |
| fish: | | | | | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. |
| daphnia: | | | | | | | |
| 12.1. Toxicity to | | | | | | | n.d.a. |
| algae: | | | | | | | |
| 12.2. Persistence | | | | | | | n.d.a. |
| and degradability: | | | | | | | |
| 12.3. | | | | | | | n.d.a. |
| Bioaccumulative | | | | | | | |
| potential: | | | | | | | |
| 12.4. Mobility in | | | | | | | n.d.a. |
| soil: | | | | | | | |
| 12.5. Results of | | | | | | | n.d.a. |
| PBT and vPvB | | | | | | | |
| assessment | | | | | | | |
| 12.6. Other | | | | | | | n.d.a. |
| adverse effects: | | | | | | | |

| Reaction mass of e | thylbenzene a | nd m-xy | lene and | p-xylene | | | |
|--------------------|---------------|---------|----------|----------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |





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| 12.5. Results of PBT and vPvB assessment | | | | | | No PBT substance, No vPvB substance |
|------------------------------------------|---------|-----|----|-------|--|----------------------------------------------|
| Toxicity to | NOEC/NO | 14d | 16 | mg/kg | | |
| annelids: | EL | | | dw | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------|----------|------|-------|-------|---------------|----------------|---------------|
| 12.1. Toxicity to | LC50 | 96h | >100 | mg/l | Oncorhynchus | OECD 203 | |
| fish: | | | | | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | LC50 | 48h | >100 | mg/l | Daphnia | OECD 202 | |
| daphnia: | | | | _ | magna | (Daphnia sp. | |
| - | | | | | | Acute | |
| | | | | | | Immobilisatio | |
| | | | | | | n Test) | |
| 12.1. Toxicity to | EC50 | 72h | 16 | mg/l | Pseudokirchne | U.S. EPA- | |
| algae: | | | | | riella | 600/9-78-018 | |
| | | | | | subcapitata | | |
| 12.2. Persistence | | | | | | | Not relevant |
| and degradability: | | | | | | | for inorganic |
| | | | | | | | substances. |
| 12.3. | BCF | 42d | 9,6 | | | | Not to be |
| Bioaccumulative | | | | | | | expected |
| potential: | | | | | | | |
| 12.3. | BCF | 14d | 19- | | | | Oncorhynchu |
| Bioaccumulative | | | 352 | | | | s mykiss |
| potential: | | | | | | | |
| 12.4. Mobility in | | | | | | | Negative |
| soil: | | | | | | | |
| 12.5. Results of | | | | | | | No PBT |
| PBT and vPvB | | | | | | | substance, |
| assessment | | | | | | | No vPvB |
| | | | | | | | substance |
| Toxicity to | | | >5000 | mg/l | Escherichia | | |
| bacteria: | | | | | coli | | |
| Toxicity to | LC0 | 24h | >1000 | mg/l | Pseudomonas | | |
| bacteria: | | | 0 | | fluorescens | | |
| Toxicity to | NOEC/NO | | >1000 | mg/kg | Eisenia | | |
| annelids: | EL | | | | foetida | | |
| Water solubility: | | | | | | | Insoluble20° |
| | | | | | | | C |

| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one | | | | | | | |
|------------------------------------------|----------|------|-------|------|----------|-------------|--------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence | | | | | | | Readily |
| and degradability: | | | | | | | biodegradabl |
| | | | | | | | e |





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| 12.3. | BCF | | 750 | | Lepomis | |
|----------------------------|---------|-----|-------|------|--------------|------------|
| Bioaccumulative | | | | | macrochirus | |
| potential: | | | | | | |
| 12.3. | Log Pow | | 2,8 | | | |
| Bioaccumulative potential: | | | | | | |
| 12.1. Toxicity to | LC50 | 96h | 0,007 | mg/l | Oncorhynchus | |
| fish: | | | 8 | | mykiss | |
| 12.1. Toxicity to | EC50 | 48h | 0,009 | mg/l | Daphnia | |
| daphnia: | | | 7 | | magna | |
| 12.1. Toxicity to | NOEC/NO | 21d | 0,000 | mg/l | Daphnia | |
| daphnia: | EL | | 4 | | magna | |
| 12.1. Toxicity to | NOEC/NO | 72h | 0,015 | mg/l | | |
| algae: | EL | | | | | |
| 12.1. Toxicity to | EC50 | 72h | 0,025 | mg/l | | |
| algae: | | | | | | |
| 12.5. Results of | | | | | | No PBT |
| PBT and vPvB | | | | | | substance, |
| assessment | | | | | | No vPvB |
| | | | | | | substance |

| Calcium carbonat | e | | | | | | |
|-------------------|----------|------|-------|------|-------------|---------------|---------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to | EC50 | 48h | >100 | mg/l | Daphnia | OECD 202 | |
| daphnia: | | | | | magna | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisatio | |
| | | | | | | n Test) | |
| 12.1. Toxicity to | EC50 | 72h | >14 | mg/l | Desmodesmus | OECD 201 | |
| algae: | | | | | subspicatus | (Alga, | |
| | | | | | | Growth | |
| | | | | | | Inhibition | |
| | | | | | | Test) | |
| Toxicity to | EC50 | 3h | >1000 | mg/l | activated | OECD 209 | |
| bacteria: | | | | | sludge | (Activated | |
| | | | | | | Sludge, | |
| | | | | | | Respiration | |
| | | | | | | Inhibition | |
| | | | | | | Test (Carbon | |
| | | | | | | and | |
| | | | | | | Ammonium | |
| | | | | | | Oxidation)) | |
| Toxicity to | | | | | Eisenia | OECD 207 | Negative |
| annelids: | | | | | foetida | (Earthworm, | |
| | | | | | | Acute | |
| | | | | | | Toxicity | |
| | | | | | | Tests) | |
| 12.3. | | | | | | | Not relevant |
| Bioaccumulative | | | | | | | for inorganic |
| potential: | | | | | | | substances. |





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| 12.4. Mobility in | | | | | | | Not relevant |
|--------------------|------|-----|-------|------|--------------|----------------|---------------|
| soil: | | | | | | | for inorganic |
| | | | | | | | substances. |
| 12.5. Results of | | | | | | | Not relevant |
| PBT and vPvB | | | | | | | for inorganic |
| assessment | | | | | | | substances. |
| 12.1. Toxicity to | LC50 | 96h | >1000 | mg/l | Oncorhynchus | | |
| fish: | | | 0 | | mykiss | | |
| 12.1. Toxicity to | LC50 | 96h | >100 | mg/l | Oncorhynchus | OECD 203 | |
| fish: | | | | | mykiss | (Fish, Acute | |
| | | | | | | Toxicity Test) | |
| 12.1. Toxicity to | EC50 | 48h | >1000 | mg/l | Daphnia | | |
| daphnia: | | | | | magna | | |
| 12.1. Toxicity to | EC50 | 72h | >200 | mg/l | Desmodesmus | | |
| algae: | | | | | subspicatus | | |
| 12.2. Persistence | | | | | | | Inorganic |
| and degradability: | | | | | | | products |
| | | | | | | | cannot be |
| | | | | | | | eliminated |
| | | | | | | | from water |
| | | | | | | | through |
| | | | | | | | biological |
| | | | | | | | purification |
| | | | | | | | methods. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.





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General statements

14.1. UN number: 1866

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1866 RESIN SOLUTION
14.3. Transport hazard class(es):
3
14.4. Packing group:
III
Classification code:
F1

LQ: 5 L 14.5. Environmental hazards: Not applicable

Tunnel restriction code: E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

RESIN SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIIEmS:F-E, S-EMarine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

Resin solution

14.3. Transport hazard class(es): 3
14.4. Packing group: III

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

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

Regulation (EC) No 1907/2006, Annex XVII

m-tolylidene diisocyanate

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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











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| Hazard categories | Notes to Annex I | Qualifying quantity | Qualifying quantity |
|-------------------|------------------|---------------------------|---------------------------|
| | | (tonnes) of dangerous | (tonnes) of dangerous |
| | | substances as referred to | substances as referred to |
| | | in Article 3(10) for the | in Article 3(10) for the |
| | | application of - Lower- | application of - Upper- |
| | | tier requirements | tier requirements |
| P5c | | 5000 | 50000 |

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

Directive 2010/75/EU (VOC):

249 g/l

 $Treated goods \ as \ per \ Regulation \ (EU) \ No. \ 528/2012 \ must \ display \ specific \ information \ on \ the \ label.$

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 6, 8, 9, 11, 12, 15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance $(EG)\ 1272/2008\ (CLP)$:

| Classification in accordance with regulation (EC) | Evaluation method used |
|---------------------------------------------------|----------------------------------------------------|
| No. 1272/2008 (CLP) | |
| Flam. Liq. 3, H226 | Classification based on test data. |
| STOT RE 2, H373 | Classification according to calculation procedure. |
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |
| Skin Irrit. 2, H315 | Classification according to calculation procedure. |
| Resp. Sens. 1, H334 | Classification according to calculation procedure. |
| Skin Sens. 1, H317 | Classification according to calculation procedure. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412 | Classification according to calculation procedure. |

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

H330 Fatal if inhaled.

H226 Flammable liquid and vapour.



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H351 Suspected of causing cancer by inhalation.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid

STOT RE — Specific target organ toxicity - repeated exposure

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

Resp. Sens. — Respiratory sensitization

Skin Sens. — Skin sensitization

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - inhalation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Carc. — Carcinogenicity

Acute Tox. - Acute toxicity - oral

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor



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BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, $E\mu$ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

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

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked

n.d.a. no data available

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development





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org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.