SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: epros® silicate resin type L30E1 Comp. B

Date of print: 17/04/2014
Revision date: 15/04/2014
Version: 2.1 / EN

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

1.1 Product identifier: epros® silicate resin type L30E1 Comp. B

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

“B” component for water glass – polyisocyanate based two-component synthetic resin. The synthetic resin (components “A”+“B”) is used for the lining of sewer pipes and manholes. The application has to be carried out under professional, industrial conditions by persons having proper previous training.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TrelleborgPipe Seals Duisburg GmbH
Street/POB: Dr.-Alfred-Herrhausen-Allee 36
Postcode/City/Country: 47228 Duisburg/ Germany
E-mail address for a competent person responsible for the safety data sheet: technic.epros@trelleborg.com
Phone: +49 (0) 2065 999-0
1.4 Emergency telephone number
+49 (0) 2065 999-150

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No. 1272/2008 (CLP):

<table>
<thead>
<tr>
<th>Hazard classes / categories</th>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
<td>H315 Causes skin irritation</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317 May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>H319 Causes serious eye irritation</td>
</tr>
<tr>
<td>Acute Tox. 4.</td>
<td>H332 Harmful if inhaled</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>H335 May cause respiratory irritation</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>H351 Suspected of causing cancer</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>H361 Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>H373 May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>H412 Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

2.1.2. Classification according to Directive 1999/45/EC:

<table>
<thead>
<tr>
<th>Classification</th>
<th>R-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xn Harmful</td>
<td>R20</td>
</tr>
<tr>
<td>Xi Irritant</td>
<td>R36/37/38</td>
</tr>
<tr>
<td>Carc. 3</td>
<td>R40</td>
</tr>
<tr>
<td></td>
<td>R42/43</td>
</tr>
<tr>
<td>Xn Harmful</td>
<td>R48/20</td>
</tr>
<tr>
<td></td>
<td>R52/53</td>
</tr>
<tr>
<td>Repr. 3</td>
<td>R62</td>
</tr>
<tr>
<td>Repr. 3</td>
<td>R63</td>
</tr>
</tbody>
</table>
2.2. Label elements

2.2.1. Labeling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:

Signal word: Danger

Hazard statements:

H315  Causes skin irritation
H317  May cause an allergic skin reaction
H319  Causes serious eye irritation
H332  Harmful if inhaled
H334  May cause allergy or asthma symptoms of breathing difficulties if inhaled
H335  May cause respiratory irritation
H351  Suspected of causing cancer
H361  May cause allergy or asthma symptoms of breathing difficulties if inhaled
H373  May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure
H412  Harmful to aquatic life with long lasting effects

Supplemental hazard information (EU):

EUH204  Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P260  Do not breathe dust/fume/gas/mist/vapours/spray.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P285  In case of inadequate ventilation wear respiratory protection.
P302+P352  IF ON SKIN: Wash with plenty of soap and water.
P304+P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P309+P311  IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Hazard determining component(s) for labelling: contains Diphenylmethan diisocyanate, isomers and homologues (CAS: 9016-87-9); Tris(2-chloro-1-methylethyl) phosphate (CAS: 13674-84-5).

2.3. Other hazards

The mixture does not meet persistent (P) and bioaccumulation (B) criteria, but it meets the criteria for toxicity (T). The mixture is not PBT and vPvB.
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SECTION 3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization

<table>
<thead>
<tr>
<th>Name</th>
<th>EC-Nr.</th>
<th>CAS-Nr.</th>
<th>REACH Reg. Nr.</th>
<th>Content (%)</th>
<th>Classification according to 67/548/EEC</th>
<th>Classification according to 1272/2008/CLP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hazard symbol(s)</td>
<td>R-phrase(s) ^1</td>
<td>Hazard categories</td>
<td>H-phrase(s) ^1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymer MDI *</td>
<td>(polymer)</td>
<td>9016-87-9</td>
<td>(polymer)</td>
<td>≥65</td>
<td>Xn</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Xi</td>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Carc. 3</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Xn</td>
<td>Resp. Sens. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td>Phenol isopropylated phosphate (3:1) !</td>
<td>273-066-3</td>
<td>68937-41-7</td>
<td></td>
<td>≤20</td>
<td>Xn</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repr. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tris(2-chloro-1-methyl-ethyl) phosphate (TCP)</td>
<td>237-158-7</td>
<td>13674-84-5</td>
<td></td>
<td>&lt;10</td>
<td>Xn</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trisobutyl phosphate</td>
<td>204-798-3</td>
<td>126-71-6</td>
<td></td>
<td>≤10</td>
<td>Xn</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,6-triallyoxy-1,3,5-trianine</td>
<td>202-936-7</td>
<td>101-37-1</td>
<td></td>
<td>≤5</td>
<td>Xn</td>
<td></td>
</tr>
</tbody>
</table>

^1 – See Section 16 for the full text of the abbreviations declared above.

^2 – The mixture contains ≤5% 4,4’-MDI (CAS: 101-68-8).

^3 – The mixture contains ≤1% Triphenyl phosphate (CAS: 115-86-6)

^4 – We have not received the data from our suppliers.

^5 – 01/2119486772-26-0000

^6 – 01/2119957118-32-0003

^7 – 01/2119489756-17-0000

SECTION 4. First aid measures

4.1. Description of first aid measures

Immediately remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air and seek medical attention.

On skin contact: After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

On contact with eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Do not induce vomiting. If the person is conscious give to drink: from 1 to 2 glasses of water. Get medical attention. Never give anything by mouth to an unconscious person.

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

Symptoms: tightness in the chest, coughing, difficulty breathing.

Overexposure can cause: Attacks, depression, hypoxemia, tremor.

Hazards: Symptoms can appear later.
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4.3. Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary oedema.

SECTION 5. Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: dry powder, carbon dioxide, alcohol-resistant foam, water spray

5.2. Special hazards arising from the substance or mixture
Carbon dioxide, carbon monoxide, hydrogen cyanide, nitrogen oxides, isocyanate. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for firefighter
Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing
Further information: Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions
Do not empty into drains. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up
For large amounts: Pump off product.
For residues: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.
Neutralize with a solution of 5 - 10 % Sodium carbonate, 0.2 - 2 % detergents and 90 - 95 % water.

6.4. Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling
Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from water. Segregate from foods and animal feeds. Segregate from acids and bases.
Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Steel Unsuitable materials for containers: paper, board.
Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Protect against moisture. Formation of CO2 and build up of pressure possible. Danger of bursting when sealed gastight. Storage class VCI: (10) Flammable liquids (if not LGK 3 A or 3 B).
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7.3. Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters
A workplace exposure level (WEL) of 0.02mg/m3 for total isocyanates (as NCO) as an 8 hour TWA, and a short term WEL (15 min) of 0.07 mg/m3 have been assigned in the United Kingdom. A BMGV for isocyanates, based on the measurement of urinary diamines, has been set at 1 µmol diamine/mol creatinine.
(http://www.hse.gov.uk/foi/internalops/sectors/manuf/03-10-07.htm)

8.2. Exposure controls
Respiratory protection: Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic, inorganic, acid inorganic particles (f. e. EN 14387 Type ABEK).
Hand protection: Chemical resistant protective gloves (EN 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):
- butyl rubber (butyl) - 0.7 mm coating thickness
- nitrile rubber (NBR) - 0.4 mm coating thickness
- chloroprene rubber (CR) - 0.5 mm coating thickness

Unsuitable materials
- polyvinylchloride (PVC) - 0.7 mm coating thickness
- Polyethylene Laminate (PE laminate) - ca. 0.1 mm coating thickness

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)
Body protection: safety shoes (e.g. according to EN 20346)

General safety and hygiene measures:
Do not breathe vapour/spray. With products freshly manufactured from isocyanates body protection and chemical resistant protective gloves is recommended. Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
a) Appearance: liquid, dark-brown
b) Odour: not applicable
c) Odour threshold: no data
d) pH-value: not applicable
e) Melting point/freezing point: no data
f) Boiling range: no data
g) Flash point: >200 °C MDI
h) Evaporation rate: no data
i) Flammability (solid, gaseous): no data
SECTION 10. Stability and reactivity

10.1. Reactivity
No corrosive effect on metal.

10.2. Chemical stability
The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions
Dangerous reactions: On contact with water, gaseous decomposition products are formed, causing overpressure in tightly closed containers. Risk of bursting. Reactions with substances containing active hydrogen.

10.4. Conditions to avoid
Temperature: > 90 °C
Thermal decomposition: > 230 °C

10.5. Incompatible materials
Substances to avoid: acids, alcohols, amines, water, alkalines.

10.6. Hazardous decomposition products
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. Toxicological information
Information is related to Polymer MDI if no other is mentioned.

11.1. Information on toxicological effects

Acute toxicity – oral: Harmful
Rats LD50 = 753 mg/kg bw, 2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)
Rats LD50 = 630-2000 mg/kg Tris(2-chloro-1-methyl-ethyl)-phosphate (CAS 13674-84-5)

Acute toxicity – vapour inhalation: Harmful
Rats LC50 = 0.49 mg/l (4h)
Rats LC50 = 7 mg/l (4 h) Tris(2-chloro-1-methyl-ethyl)-phosphate (CAS 13674-84-5)
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Acute toxicity – dermal: Not classified. Based on available data, the classification criteria are not met.
   Rabbit LD₅₀ >9400 mg/kg bw (24 h)
   Rabbit LD₅₀ >5000 mg/kg bw Tris(2-chloro-1-methyl-ethyl)phosphate (CAS 13674-84-5)
   Rats LD₅₀ >2000 mg/kg bw Tris(2-chloro-1-methyl-ethyl)phosphate (CAS 13674-84-5)

11.2. Irritation/Corrosion: Summarized the results of the studies together with human occupational case reports support the official classification.
   Skin corrosion/Skin irritation: Irritating. Irritating in rabbits.
   Eye damage/Irritation: Irritating. Irritating in rabbits.
(Read-across based on 4,4-Methylene diphenyldiisocyanate – CAS 101-68-8.)
Summarized the available animal data would not support classification of MDI as an eye irritant. But together with human occupational case reports in which symptoms of eye irritation were reported the legal classification as eye irritant should be applied.

11.3. Sensitisation: Animal data as well as studies in humans provide evidence of possible skin sensitisation, and of respiratory sensitisation due to MDI. Animal studies indicate that MDI is a strong allergen. Human case reports describe the occurrence of allergic contact dermatitis due to MDI exposure.
   Respiratory sensitisation: respiratory sensitizers
   Skin sensitisation: skin sensitizers
   Sensitizing in rats.

11.4. Mutagenicity: Not classified. Based on available data, the classification criteria are not met.

11.5. Carcinogenicity: Carc. Cat. 2
   Rats (inhalation) NOAEC = 0.2 mg/ m³ (Toxicity)
   NOAEC = 1 mg/m³ (Carcinogenicity)
   LOAEC = 6 mg/m³ (Carcinogenicity)

11.6. Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.
   Effects on fertility: No fertility nor multigeneration studies are available for MDI.
   Developmental toxicity: MDI is not a developmental toxicant.
   Rats NOAEL = 4 mg/m³ (maternal and foetal toxicity)
   NOAEL = 12 mg/m³ (teratogenicity)

11.7. STOT-single exposure: Harmful
(Read-across based on 4,4-Methylene diphenyldiisocyanate – CAS 101-68-8)

11.8. STOT-repeated exposure: Harmful
   Rats (inhalation) NOAEC = 0.2 mg/m³ (2 years)
   LOAEC = 1.0 mg/m³
   Rats (oral) NOEL > 20 000 ppm (13 weeks) Tris(2-chloro-1-methyl-ethyl)phosphate (CAS 13674-84-5)

11.9. Aspiration hazard: Not classified due to lack of data.

11.10. Toxicokinetics (absorption, metabolism, distribution and elimination)
(Read-across based on 4,4-Methylene diphenyldiisocyanate – CAS 101-68-8)
   Oral exposure: No information is available on the toxicokinetics of MDI following oral exposure in animals.
   Dermal exposure: No radioactivity was absorbed through human skin during a 54h continuous exposure, and only small amounts (maximally 0.23% of applied dose) were absorbed through rat and guinea pig skin. The majority of applied MDI equivalents were found to be associated with the skin.
   Inhalation exposure: With respect to inhalation exposure, there is good and reliable data regarding distribution/excretion in experimental animals.
   Most of the systemically available dose was excreted via bile, and a slightly lower amount via urine.
11.11. Genetic toxicity: Not classified. Based on available data, the classification criteria are not met.

 SECTION 12. Ecological information

Information is related to Polymer MDI if no other is mentioned

12.1. Toxicity
12.1.1. Aquatic toxicity
Short-term toxicity to fish:
Freshwater fish LC50 = 1000 mg/l (96 h)
Fish: LC50 (96 h) 56,2 mg/l Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)
Freshwater fish LC50 = 7.05 mg/l (96 h), 2,4,6-triallyloxy-1,3,5-triazine (CAS 101-37-1)

Short-term toxicity to aquatic invertebrates:
Freshwater invertebrates: EC50/LC50 = >1000 mg/l (24 h)
Daphnia magna: EC50 131 mg/l, (48 h) Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

Long-term toxicity to invertebrates:
Freshwater invertebrates EC10/LC10 or NOEC = 10 mg/l (21 day)

Toxicity to aquatic algae and cyanobacteria:
Freshwater algae EC50/LC50 >1640 mg/l (72 h)
Freshwater algae EC50 82 mg/l (72 h) Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

Toxicity to microorganisms:
Microorganisms EC50/LC50 >100 mg/l (3 h)

Long-term toxicity to aquatic invertebrates:
NOEC, 32 mg/l, Daphnia magna Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

Toxicity to soil organisms:
NOEC 18 mg/kg, Lactuca sativa (OECD directive 208) Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

12.2. Persistence and degradability
Not readily biodegradable. Inherently biodegradable. Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

12.3. Bioaccumulative potential
Not bioaccumulative. Tris(2-chloro-1-methyl-ethyl) phosphate (CAS 13674-84-5)

12.4. Mobility in soil:
The absorption factor is 174 for TCPP, which means a moderate absorption potential.

12.5. Results of PBT and vPvB assessment:
The mixture is not PBT and vPvB.

12.6. Other adverse effects: It is not expected that the components have an effect on global warming, ozone depletion in the stratosphere or ozone formation in the troposphere.

 SECTION 13. Disposal considerations

13.1. Waste treatment methods: The products becoming useless and the contaminated containers not suitable for product storage must be handled as hazardous waste in accordance with EU and regional hazardous waste regulations.
European Waste Catalogue code: 08 05 01

13.1.1. Product / Packaging disposal: Contaminated packaging should be emptied as far as possible; than it can be passed on for recycling after being thoroughly cleaned. Wrappings cleaned from contamination with suitable cleaning process (e.g. by steaming, treating with washing fluid, etc.) must be considered as non hazardous waste.
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13.1.2. Waste treatment options: Incinerate in suitable incineration plant, observing local authority regulations

SECTION 14. Transport information

Land transport (ADR/RID/GGVSE)
Sea transport (IMGD-Code/GGVSee)
Air transport (ICAO-IATA/ADGR)

14.1. UN number: Not dangerous goods
14.2. UN proper shipping name: Not dangerous goods
14.3. Transport hazard class(es): Not dangerous goods
14.4. Packaging group: Not dangerous goods
14.5. Environmental hazards: Marine pollutant: no
14.6. Special precautions for users: EmS number: Not dangerous goods
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not relevant.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislations specific for the substance or mixture
15.1.1. Information regarding relevant Community safety, health and environmental provisions: Polymeric MDI is not listed in Annex I of Directive 96/82/EC (Seveso II).

15.1.2. EU regulations

- International Chemical Safety Cards (WHO/IPCS/ILO)
- ISOPA guidelines (www.isopa.org)
- MDI&TDI Safety, Health and Environment, John Wiley & Sons Ltd. 2003

15.1.3. National regulations

Carc. 3: Category 3: Substances which cause concern for man owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment.

Based on the existing data, classification according to a causal relationship between human exposure to the substance and impaired fertility is not possible.

Based on the existing data, classification according to a causal relationship between human exposure to the substance and mutagenicity is not possible.
Contains Isocyanate. Note the advices of producer.

15.2. Chemical Safety Assessment
In accordance with REACH Chemical Safety Assessment has not been carried out for the substance.

SECTION 16. Other information
The information given corresponds with our actual knowledge and experience. This information is meant to describe our product in view of possible safety requirements.

16.1. Indication of changes: This version replaces all previous versions.

16.2. Abbreviations and acronyms:
- bw: bodyweight
- CAS number: Chemical Abstracts Service number
- CLP: Classification Labelling Packaging Regulation
- EC: European Commission
- EC number: EINECS and ELINCS number
- EC50: Half maximal effective concentration
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- LC50: Lethal concentration, 50 %
- LD50: Median Lethal dose
- LOAEC: Lowest Observed Adverse Effect Concentration
- NOAEC: No Observed Adverse Effect Concentration
- NOEC: No Observed Effect Concentration
- OECD: Organisation for Economic Cooperation and Development
- PBT: Persistent, Bioaccumulative and Toxic
- P-MDI: Polymethylene polyphenyl polisocyanate
- REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals
- STOT: Specific Target Organ Toxicity
- TWA value: Time Weighted Average value
- vPvB: Very Persistent and Very Bioaccumulative

16.3. Key literature references and sources for data: safety data sheets, received from the raw materials suppliers.

16.4. Full text of abbreviations

Hazard symbol(s)
- Xn: Harmful
- Xi: Irritant
- Carc.: Carcinogenic
- Repr.: Reproductive toxicity
- N: Dangerous for the environment

R-Phrases
- R20: Harmful by inhalation
- R22: Harmful if swallowed
- R36/37/38: Irritating to eyes, respiratory system and skin
- R40: Limited evidence of a carcinogenic effect
- R42/43: May cause sensitisation by inhalation and skin contact
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R43 May cause sensitisation by skin contact
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62 Possible risk of impaired fertility
R63 Possible risk of harm to the unborn child

H- Phrases
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
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
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or 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
H413 May cause long lasting harmful effects to aquatic life

Hazard classes
Acute Tox. Acute Toxicity
Aquatic Chronic Hazardous to the aquatic environment
Carc. Carcinogenity
Eye irrit. Serious eye irritation
Repr. Reproductive toxicity
Resp. Sens. Respiratory sensitization
Skin Irrit. Skin irritation
Skin Sens. Skin sensitization
STOT RE Specific target organ toxicity – repeated exposure
STOT SE Specific target organ toxicity – single exposure