

# SAFETY DATA SHEET

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

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## HydroBloc 575 Integral

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

#### 1.1. Product identifier

Trade name/designation:

HydroBloc 575 Integral

UFI:

T4JJ-ERUS-PWQY-9YT1

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

Use of the substance/mixture:

1-C PU injection resin

Relevant identified uses:

**Life cycle stage [LCS]**

**PW:** Widespread use by professional workers

**C:** Consumer use

**Sector of uses [SU]**

**SU 19:** Building and construction work

**Product Categories [PC]**

**PC 1:** Adhesives, sealants

**Process categories [PROC]**

**PROC 0:** Other

**Article categories [AC]**

**AC 0:** Other

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**ARCAN GmbH**

Kleinniedesheimerstrasse 19

67240 Bobenheim-Roxheim

Germany

**Telephone:** +49 (0) 6239 - 99 78 2 - 0

**Telefax:** +49 (0) 6239 - 99 78 2 - 20

**E-mail:** sds-labor@arcan.biz

**Website:** www.arcan.biz

#### 1.4. Emergency telephone number

+49 (0) 6239 - 99 78 2 - 0 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories                                 | Hazard statements  | Classification procedure |
|--|--|--------------------------|
| Serious eye damage/eye irritation<br>( <i>Eye Irrit. 2</i> )         | H319: Causes serious eye irritation.   | Calculation method.      |
| Acute toxicity (inhalative)<br>( <i>Acute Tox. 4</i> )               | H332: Harmful if inhaled.  | Calculation method.      |
| Respiratory or skin sensitisation<br>( <i>Resp. Sens. 1</i> )        | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. | Calculation method.      |
| Hazardous to the aquatic environment<br>( <i>Aquatic Chronic 3</i> ) | H412: Harmful to aquatic life with long lasting effects.                         | Calculation method.      |

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### 2.2. Label elements

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

Hazard pictograms:



**GHS07**

Exclamation mark



**GHS08**

Health hazard

**Signal word:** Danger

**Hazard components for labelling:**

m-tolidene diisocyanate; Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester; p-toluenesulphonyl isocyanate

#### hazard statements for health hazards

|      |  |
|------|--|
| H319 | Causes serious eye irritation.   |
| H332 | Harmful if inhaled.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

#### Hazard statements for environmental hazards

|      |  |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

**Supplemental hazard information:** -

#### Precautionary statements Prevention

|      |  |
|------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... |

#### Precautionary statements Response

|                    |  |
|--------------------|--|
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTER/doctor/... if you feel unwell.  |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |

**Special rules for supplemental label elements for certain mixtures:**

28,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

28,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

41,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

28,5 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

### 2.3. Other hazards

No data available

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

| product identifiers   | Substance name<br>Classification according to Regulation (EC) No 1272/2008<br>[CLP]   | Concentration         |
|---|---|-----------------------|
| CAS No.: 1244733-77-4<br>EC No.: 911-815-4<br>REACH No.:<br>01-2119486772-26-XXXX | Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>Acute Tox. 4 (H302)<br><b>Warning</b> | 22 - ≤ 40<br>weight-% |
| CAS No.: 108-32-7<br>EC No.: 203-572-1<br>REACH No.:<br>01-2119537232-48-XXXX     | propylene carbonate<br>Eye Irrit. 2 (H319)<br><b>Warning</b>  | 6 - ≤ 12<br>weight-%  |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get immediate medical advice/attention.

##### In case of skin contact:

In case of contact with skin, wash off immediately with plenty of water / polyethylene glycol 400 (Roticlean).

Then wash off with plenty of water and soap.

If this is not available, instead:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

##### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Following ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

##### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Serious eye damage/eye irritation. Allergic reactions Asthmatic complaints Respiratory complaints

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

, Dry extinguishing powder, Carbon dioxide.

**Unsuitable extinguishing media:**

Water

#### 5.2. Special hazards arising from the substance or mixture

Not readily combustible.

Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction. Container may rupture from gas generation in a fire situation.

Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Dense smoke is produced when product burns.

**Hazardous combustion products:**

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Isocyanates, Hydrogen cyanide (hydrocyanic acid), Phosphorus oxides, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>). In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Cool endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely.

Do not allow water to get into the container because of violent reaction.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Use personal protective equipment. Keep unprotected people away. Provide adequate ventilation. Avoid contact with eyes and skin. Avoid inhalation.

Special danger of slipping by leaking/spilling product.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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### For cleaning up:

Cover with a moist binding agent (e.g. sand, soil, PUR-dust). Douse with a decontaminating solution and let it act for at least 30 minutes. Mix it well and keep wet with water.

Decontaminating solutions:

A. 90 - 95 % water, 3 - 8 % ammonia conc., 0,2 - 0,5 % liquid detergent (washing up liquid)

or

B. 90 - 95 % water, 5 - 10 % soda (sodium carbonate), 0,2 - 0,5 % liquid detergent (washing up liquid)

Collect in a waste container. Do not close the container (CO<sub>2</sub> development). Treat with more decontaminating solution, let it act for 1 or 2 days then dispose.

Clean floors and contaminated objects with: a mixture of 45% water, 50% ethanol or isopropyl alcohol, 5% concentrated ammonia solution (density 0.880). Combustible!

### Other information:

Provide adequate ventilation.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Keep container tightly closed. Ensure good ventilation / aspiration at the workplace. Avoid contact with skin, eyes and clothes. Provide washing facilities in the work area.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Obtain special instructions before use.

#### Fire prevent measures:

Avoid spraying or heating above the flash point.

#### Environmental precautions:

Do not allow product to reach ground water, water bodies or sewage system.

#### Advices on general occupational hygiene

The usual precautionary measures when handling chemicals must be observed.

Do not eat, drink or smoke at work. Keep away from food, drink and animal feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin. Take off dirty, soaked clothes immediately. Wash before re-use.

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Protect from moisture.

Reacts with water forming CO<sub>2</sub>; in closed containers, risk of bursting owing to increase of pressure. Keep only in the original container in a cool, well-ventilated place.

#### Hints on storage assembly:

Store away from oxidizing agents.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Recommended storage temperature 5°C - 30°C

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### 7.3. Specific end use(s)

#### Recommendation:

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name  | ① Long-term occupational exposure limit value<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|---|--|
| TRGS 900 (DE)                        | propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1 | ① 2 ppm (8.5 mg/m <sup>3</sup> )<br>② 2 ppm (8.5 mg/m <sup>3</sup> )<br>⑤ (Aerosol und Dampf)  |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name   | DNEL value             | ① DNEL type<br>② Exposure route                               |
|--|------------------------|---|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 5.82 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 1.46 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 22.4 mg/m <sup>3</sup> | ① DNEL worker<br>② Acute - inhalation, systemic effects       |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 11.2 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Acute - inhalation, systemic effects     |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 2.08 mg/kg bw/day      | ① DNEL worker<br>② Long-term - dermal, systemic effects       |

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| Substance name   | DNEL value              | ① DNEL type<br>② Exposure route                               |
|--|-------------------------|---|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 1.04 mg/kg bw/day       | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 8 mg/kg bw/day          | ① DNEL worker<br>② Acute - dermal, systemic effects           |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 4 mg/kg bw/day          | ① DNEL Consumer<br>② Acute - dermal, systemic effects         |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 0.52 mg/kg bw/day       | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 70.53 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 17.4 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 20 mg/m <sup>3</sup>    | ① DNEL worker<br>② Long-term - inhalation, local effects      |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 10 mg/m <sup>3</sup>    | ① DNEL Consumer<br>② Long-term - inhalation, local effects    |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 20 mg/kg bw/day         | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 10 mg/kg bw/day         | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 10 mg/kg bw/day         | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |

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| Substance name   | PNEC Value | ① PNEC type                          |
|--|------------|--------------------------------------|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 0.64 mg/l  | ① PNEC aquatic, freshwater           |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 0.064 mg/l | ① PNEC aquatic, marine water         |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 7.84 mg/l  | ① PNEC sewage treatment plant        |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 13.4 mg/kg | ① PNEC sediment, freshwater          |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 1.34 mg/kg | ① PNEC sediment, marine water        |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 11.6 mg/kg | ① PNEC secondary poisoning           |
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | 0.51 mg/l  | ① PNEC aquatic, intermittent release |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 0.9 mg/l   | ① PNEC aquatic, freshwater           |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 0.09 mg/l  | ① PNEC aquatic, marine water         |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 7,400 mg/l | ① PNEC sewage treatment plant        |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | 9 mg/l     | ① PNEC aquatic, intermittent release |



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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374

Suitable material:

NBR (Nitrile rubber), 0,35 mm

Butyl caoutchouc (butyl rubber) , 0,5 mm

FKM (fluoro rubber), 0,4 mm

PVC (polyvinyl chloride), 0,55 mm

In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Breakthrough time: min

##### Respiratory protection:

Usually no personal respirative protection necessary.

Respiratory protection necessary at: when vapours/aerosols are generated. Recommended filter type:

Gas filter A for gases and vapours of organic compounds (brown)

##### Other protection measures:

Wear protective gloves/protective clothing.

#### 8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** not determined

#### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with water (moisture) and cures Vapours are heavier than air. Formation of explosive atmospheres possible when heated above the flash point and/or during spraying.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with:

Acids, Alkali (lye),Alcohols, Amines, Ammonia (NH<sub>3</sub>). The reaction results in formation of carbon dioxide:

Danger of bursting due pressure build-up in closed containers.

Violent polymerisation may be caused by: High temperatures. organotin compounds.

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### 10.4. Conditions to avoid

Avoid spraying or heating above the flash point.

### 10.5. Incompatible materials

Copper alloys, Copper, zinc, non-ferrous metals, Acids.

### 10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

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

| Substance name   | Toxicological information  |
|--|--|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | <b>LD<sub>50</sub> oral:</b><br>≈2,000 mg/kg (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>>2,000 mg/kg (Rabbit (24h))<br><b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b><br>>17.8 mg/l 1 h (Rat (male, female)) |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | <b>LD<sub>50</sub> dermal:</b><br>>2,000 mg/kg (Rabbit - male, female) OECD 402<br><b>LD<sub>50</sub> oral:</b><br>33,520 mg/kg (Rat - male, female)   |

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

Harmful if inhaled.

#### Skin corrosion/irritation:

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

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

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

#### Germ cell mutagenicity:

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

#### Carcinogenicity:

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

#### Reproductive toxicity:

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

#### STOT-single exposure:

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

#### STOT-repeated exposure:

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

#### Aspiration hazard:

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

#### Additional information:

No data available

### 11.2. Information on other hazards

No data available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

| Substance name   | Toxicological information   |
|--|---|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | <b>LC<sub>50</sub></b> : 51 mg/l 4 d (fish, Pimephales promelas (fathead minnow))<br><b>EC<sub>50</sub></b> : 131 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))<br><b>EC<sub>50</sub></b> : 82 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201    |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | <b>EC<sub>50</sub></b> : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202<br><b>EC<sub>50</sub></b> : >900 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) OECD 201<br><b>LC<sub>50</sub></b> : >1,000 mg/l 4 d (fish, Cyprinus carpio (Common Carp)) |

#### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

| Substance name   | Biodegradation | Remark |
|--|----------------|--------|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | Yes, slowly    |        |
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1  | Yes, rapidly   |        |

#### 12.3. Bioaccumulative potential

| Substance name  | Log K <sub>OW</sub> | Bioconcentration factor (BCF) |
|---|---------------------|-------------------------------|
| propylene carbonate<br>CAS No.: 108-32-7<br>EC No.: 203-572-1 | -0.41               |                               |

#### 12.4. Mobility in soil

Diisocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea.

#### 12.5. Results of PBT and vPvB assessment

| Substance name   | Results of PBT and vPvB assessment |
|--|------------------------------------|
| Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester<br>CAS No.: 1244733-77-4<br>EC No.: 911-815-4 | —                                  |

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

##### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

**Waste code product:**

**Remark:**

Unhardened product residues are special waste. Cured product residues are no hazardous waste.

Mix product residues with water and allow to harden. Dispose of hardened product residues as household-type industrial waste

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Decontaminate product residues in completely empty containers with a decontaminating solution (see section 6.3 Methods and material for containment and cleaning up).

#### 13.2. Additional information

Do not allow to enter into surface water or drains.

### SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       |  |
|--|--|--|--|
| <b>14.1. UN number or ID number</b>                        |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |  |
| <b>14.2. UN proper shipping name</b>                       |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |  |
| <b>14.3. Transport hazard class(es)</b>                    |  |  |  |
| not relevant   |  |  |  |
| <b>14.4. Packing group</b>                                 |  |  |  |
| not relevant   |  |  |  |
| <b>14.5. Environmental hazards</b>                         |  |  |  |
| not relevant   |  |  |  |
| <b>14.6. Special precautions for user</b>                  |  |  |  |
| not relevant   |  |  |  |

#### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

No data available

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### 15.1.2. National regulations

#### [DE] National regulations

#### Restrictions of occupation

5 MuSchRiV. 22 JArbSchG. 4 MuSchRiV. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

#### Water hazard class

#### WGK:

1 - schwach wassergefährdend

#### Technische Regeln für Gefahrstoffe

TRGS 430 TRGS 500 TRGS 510 TRGS 900 TRGS 903

#### Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Use of respiratory protective equipment

### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

### 16.3. Key literature references and sources for data

[P:2debe9a0-a2e5-482c-96de-3f3a95dc2e92\](#)

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

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

| Hazard classes and hazard categories                                 | Hazard statements  | Classification procedure |
|--|--|--------------------------|
| Serious eye damage/eye irritation<br>( <i>Eye Irrit. 2</i> )         | H319: Causes serious eye irritation.   | Calculation method.      |
| Acute toxicity (inhalative)<br>( <i>Acute Tox. 4</i> )               | H332: Harmful if inhaled.  | Calculation method.      |
| Respiratory or skin sensitisation<br>( <i>Resp. Sens. 1</i> )        | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. | Calculation method.      |
| Hazardous to the aquatic environment<br>( <i>Aquatic Chronic 3</i> ) | H412: Harmful to aquatic life with long lasting effects.                         | Calculation method.      |

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements |                                |
|-------------------|--------------------------------|
| H302              | Harmful if swallowed.          |
| H319              | Causes serious eye irritation. |

### 16.6. Training advice

No data available

### 16.7. Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of going to print. The information is intended to give you guidelines for the safe handling of the product named in this safety data sheet during storage, processing, transport and disposal. The information cannot be transferred to other products. If the product is blended, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless otherwise stated.