

# Safety data sheet

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according to 1907/2006/EC, Article 31

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## SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Trade name: Citric acid monohydrate · Article number: 1018 · CAS Number: 5949-29-1 · EC number: 201-069-1 · Application of the substance / the mixture Laboratory chemicals 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: PANREAC QUIMICA S.L.U. Tel. (+34) 937 489 400 C/Garraf 2 Fax. (+34) 937 489 401 Polígono Pla de la Bruguera e-mail: product.safety@panreac.com E-08211 Castellar del Vallès (Barcelona) · Further information obtainable from: email: product.safety@panreac.com · 1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Eye Irrit. 2 H319 Causes serious eye irritation. · 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. • Hazard pictograms



- · Signal word Warning
- Hazard statements
- H319 Causes serious eye irritation.
- Precautionary statementsP264Wash thoroughly after handling.

(Contd. on page 2)

P280 Wear eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 5949-29-1 Citric acid monohydrate
- · Identification number(s)
- EC number: 201-069-1

## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
   General information: Personal protection for the First Aider. Take affected persons out into the fresh air. Involve doctor immediately.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing:

make victim drink water (maximum of 2 drinking glasses) Do not induce vomiting; call for medical help immediately. If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Carbon dioxide

Foam

Use fire extinguishing methods suitable to surrounding conditions.

- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Carbon monoxide and carbon dioxide Non-combustible.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. on page 3)

(Contd. of page 1)

(Contd. of page 2)

### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. Avoid substance contact. Ensure adequate ventilation

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Pick up mechanically.

Avoid formation of dust. Clean up affected area.

• **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

• **7.1 Precautions for safe handling** Any unavoidable deposit of dust must be regularly removed. • **Information about fire - and explosion protection:** The product is not flammable.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Provide acid-resistant floor.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · PNECs

| Aquatic compartment - freshwater                                                | 0.44 mg/L   |  |  |  |  |  |
|---------------------------------------------------------------------------------|-------------|--|--|--|--|--|
| Aquatic compartment - marine water                                              | 0.044 mg/L  |  |  |  |  |  |
| Aquatic compartment - sediment in freshwater                                    | 3.46 mg/kg  |  |  |  |  |  |
| Aquatic compartment - sediment in marine water                                  | 34.6 mg/kg  |  |  |  |  |  |
| Terrestrial compartment - soil                                                  | 33.1 mg/kg  |  |  |  |  |  |
| Sewage treatment plant                                                          | >1,000 mg/L |  |  |  |  |  |
| • Additional information: The lists valid during the making were used as basis. |             |  |  |  |  |  |

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### · Respiratory protection:

Required when dusts are generated.

(Contd. on page 4)

| (Contd. of page 3)                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Filter P2                                                                                                                                                     |
| · Hand protection                                                                                                                                             |
| The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.                                                        |
| Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation                                             |
| · Material of gloves                                                                                                                                          |
| The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. |
| · Penetration time of glove material                                                                                                                          |
| The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.                                         |
| • For the permanent contact gloves made of the following materials are suitable:                                                                              |
| Nitrile rubber, NBR                                                                                                                                           |
| Recommended thickness of the material: $\geq 0.11$ mm                                                                                                         |
| Value for the permeation: Level $\geq$ 480 min                                                                                                                |
| • As protection from splashes gloves made of the following materials are suitable:                                                                            |
| Nitrile rubber, NBR                                                                                                                                           |
| Recommended thickness of the material: $\geq 0.11$ mm                                                                                                         |
| Value for the permeation: Level $\geq$ 480 min                                                                                                                |
| · Eye/face protection                                                                                                                                         |
|                                                                                                                                                               |
| Tightly sealed goggles                                                                                                                                        |
| Body protection:                                                                                                                                              |

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

| 9.1 Information on basic physical and chemical properties |                           |  |  |  |  |
|-----------------------------------------------------------|---------------------------|--|--|--|--|
| General Information                                       |                           |  |  |  |  |
| Physical state                                            | Solid                     |  |  |  |  |
| Colour:                                                   | White                     |  |  |  |  |
| Odour:                                                    | Odourless                 |  |  |  |  |
| Odour threshold:                                          | Not determined.           |  |  |  |  |
| Melting point/freezing point:                             | 135-152 °C                |  |  |  |  |
| Boiling point or initial boiling poin                     | it and boiling            |  |  |  |  |
| range                                                     | Undetermined.             |  |  |  |  |
| Flammability                                              | Product is not flammable. |  |  |  |  |
| Lower and upper explosion limit                           |                           |  |  |  |  |
| Lower:                                                    | Not determined.           |  |  |  |  |
| Upper:                                                    | Not determined.           |  |  |  |  |
| Flash point:                                              | Not applicable.           |  |  |  |  |
| Auto-ignition temperature:                                | Not determined.           |  |  |  |  |
| Decomposition temperature:                                | >170 °C                   |  |  |  |  |
| pH                                                        | 1.8                       |  |  |  |  |
| Viscosity:                                                |                           |  |  |  |  |
| Kinematic viscosity                                       | Not applicable.           |  |  |  |  |
| Dynamic:                                                  | Not applicable.           |  |  |  |  |
| Solubility                                                |                           |  |  |  |  |
| water at 25 °C:                                           | 676 g/l                   |  |  |  |  |
| Partition coefficient n-octanol/wat                       | er (log value) -1.79997   |  |  |  |  |
| Vapour pressure:                                          | Not applicable.           |  |  |  |  |
| Density and/or relative density                           |                           |  |  |  |  |
| Density at 20 °C:                                         | 1.54 g/cm <sup>3</sup>    |  |  |  |  |

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Trade name: Citric acid monohydrate

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|---------------------------------------------------------------------------|-----------------------------------------------|
| Relative density                                                          | Not determined.                               |
| Bulk density:                                                             | 550-950 kg/m³                                 |
| Vapour density                                                            | Not applicable.                               |
| 9.2 Other information                                                     |                                               |
| Appearance:                                                               |                                               |
| Form:                                                                     | Solid                                         |
| Important information on protection of he and environment, and on safety. | alth                                          |
| Explosive properties:                                                     | Product does not present an explosion hazard. |
| Change in condition                                                       |                                               |
| Evaporation rate                                                          | Not applicable.                               |
| <ul> <li>Information with regard to physical haz<br/>classes</li> </ul>   |                                               |
| · Explosives                                                              | Void                                          |
| Flammable gases                                                           | Void                                          |
| Aerosols                                                                  | Void                                          |
| Oxidising gases                                                           | Void                                          |
| Gases under pressure                                                      | Void                                          |
| Flammable liquids                                                         | Void                                          |
| Flammable solids                                                          | Void                                          |
| Self-reactive substances and mixtures                                     | Void                                          |
| Pyrophoric liquids                                                        | Void                                          |
| Pyrophoric solids                                                         | Void                                          |
| Self-heating substances and mixtures                                      | Void                                          |
| Substances and mixtures, which emit                                       |                                               |
| flammable gases in contact with water                                     | Void                                          |
| Oxidising liquids                                                         | Void                                          |
| Oxidising solids                                                          | Void                                          |
| Organic peroxides                                                         | Void                                          |
| Corrosive to metals                                                       | Void                                          |
| <ul> <li>Desensitised explosives</li> </ul>                               | Void                                          |

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Heating.
- 10.3 Possibility of hazardous reactions
- Exothermic reactions with: oxidizing agent reducing agents metals Bases
- **10.4 Conditions to avoid** Thermal decomposition: >170°C
- · 10.5 Incompatible materials:

oxidizing agent Bases

reducing agents

- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- Additional information: releases water of crystallization when heated.

## **SECTION 11: Toxicological information**

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

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

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| Type o                                                                                                                                                                                                                                                             | c toxic<br>f test                                                                                                                                                                                                                                                          | Effectiv                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Type o                                                                                                                                                                                                                                                             | c toxic<br>f test<br>4 h 1,5                                                                                                                                                                                                                                               | Effectiv<br>35 mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| <b>Type o</b><br>LC50/24<br>LC50/4                                                                                                                                                                                                                                 | <b>c toxic</b><br><b>f test</b><br>4 h 1,5<br>8 h 44                                                                                                                                                                                                                       | <b>Effectiv</b><br>35 mg/l<br>0 mg/l (fi                                                                                                                                                                                                                                                                                                                                                                                                                                             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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC                                                                                                                                                                                                                                 | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42                                                                                                                                                                                                                               | <b>Effectiv</b><br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i>                                                                                                                                                                                                                                                                                                                                                                                                                        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                      |                             |
| Type o<br>LC50/24<br>LC50/44<br>NOEC<br>12.2 Pe                                                                                                                                                                                                                    | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister                                                                                                                                                                                                                   | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L (/<br>nce and                                                                                                                                                                                                                                                                                                                                                                                                                            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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi                                                                                                                                                                                                           | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur                                                                                                                                                                                                         | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>nce and<br>nulative                                                                                                                                                                                                                                                                                                                                                                                                        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                      |                             |
| Type o<br>LC50/24<br>LC50/44<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re                                                                                                                                                                                   | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults o                                                                                                                                                                                  | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>1 ce and<br>nulative<br>in soil N<br>of PBT a                                                                                                                                                                                                                                                                                                                                                                              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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N                                                                                                                                                                           | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults c<br>lot appl                                                                                                                                                                      | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br>nce and<br>nulative<br>in soil N<br>of PBT a<br>icable.                                                                                                                                                                                                                                                                                                                                               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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB:                                                                                                                                                                  | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults c<br>lot appl<br>Not app                                                                                                                                                           | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>10 ce and<br>10 ce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | e conc<br>(daphr<br>sh)<br>Algae)<br>degrad<br>poten<br>lo furth<br>ind vP                                                                                                                 | centration<br>hia magna)<br>dability Th<br>ntial No fur<br>er relevan<br>vB assess                                                                                                                                             | Method<br>he product i<br>ther releva<br>t informatio                                                                                                       | Assessment<br>s easily biodegradable.<br>nt information available.                                                                                                                                                                                                                                                                         |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: 1<br>12.6 En                                                                                                                                                     | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults c<br>lot appl<br>Not app                                                                                                                                                           | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br><b>nce and</b><br>nulative<br>in soil N<br>of PBT a<br>icable.<br>olicable.<br>e disrug                                                                                                                                                                                                                                                                                                               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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro                                                                                                                                          | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults c<br>lot appl<br>Not app<br>ndocrin<br>oduct do                                                                                                                                    | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br><b>nce and</b><br>nulative<br>in soil N<br>of PBT a<br>icable.<br>olicable.<br>e disrug                                                                                                                                                                                                                                                                                                               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                      |                             |
| Type o<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro<br>12.7 Ot<br>Additio                                                                                                                    | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults o<br>lot appl<br>Not app<br>ndocrin<br>oduct do<br>ther ad<br>onal ec                                                                                                              | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br>6 mg/L ( <i>i</i><br>6 mg/L ( <i>i</i><br>7 mg/L ( <i>i</i> ) mg/L ( <i>i</i><br>7 mg/L ( <i>i</i> ) mg/L (                                                                                                                                                           | e conc<br>(daphr<br>sh)<br>Algae)<br>degrae<br>poten<br>lo furth<br>ind vP<br>oting p<br>contain<br>fects                                                                                  | centration<br>hia magna)<br>dability Th<br>ntial No fur<br>er relevan<br>vB assess<br>properties<br>substance                                                                                                                  | Method<br>ne product i<br>ther releva<br>t informatio<br>sment                                                                                              | Assessment<br>s easily biodegradable.<br>nt information available.<br>n available.                                                                                                                                                                                                                                                         |                             |
| Type or<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro<br>12.7 Ot<br>Additio<br>Genera                                                                                                         | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>22<br>ersister<br>oaccur<br>obility<br>esults o<br>lot appl<br>Not app<br>ndocrin<br>oduct do<br>ther ad<br>onal ect<br>al notes                                                                                                 | Effectiv<br>35 mg/l<br>0 mg/l (fi<br>5 mg/L (/<br>ce and<br>nulative<br>in soil N<br>of PBT a<br>icable.<br>e disrup<br>bes not c<br>verse ef<br>blogical                                                                                                                                                                                                                                                                                                                            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                      |                             |
| Type or<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro<br>12.7 Ot<br>Additio<br>Genera<br>Rinse o                                                                                              | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults o<br>lot appl<br>Not app<br>ndocrin<br>oduct do<br>ther ad<br>onal ec<br>al notes<br>off of big                                                                                    | Effectiv<br>35 mg/l<br>35 mg/l (fi<br>5 mg/L (/<br>5 mg/L (/<br>nce and<br>nulative<br>in soil N<br>of PBT a<br>icable.<br>e disrup<br>bes not c<br>verse ef<br>blogical<br>s:<br>gger amo                                                                                                                                                                                                                                                                                           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                      |                             |
| Type or<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro<br>12.7 Ot<br>Additio<br>Genera<br>Rinse o<br>A low p                                                                                   | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults of<br>lot appl<br>Not app<br>ndocrin<br>oduct do<br>ther ad<br>onal ec<br>al notes<br>off of big<br>0H-value                                                                       | Effectiv<br>35 mg/l<br>35 mg/l (fi<br>5 mg/L (/<br>5 mg/L (/<br>nce and<br>nulative<br>in soil N<br>of PBT a<br>cable.<br>blicable.<br>e disrup<br>bes not c<br>verse ef<br>plogical<br>s:<br>gger amo<br>e harms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e conc<br>(daphr<br>sh)<br>Algae)<br>degrad<br>poten<br>lo furth<br>nd vP<br>contain<br>fects<br>inforn<br>ounts in<br>aquati                                                              | centration<br>hia magna)<br>dability Th<br>htial No fur<br>er relevan<br>vB assess<br>substance<br>nation:<br>nto drains<br>c organism                                                                                         | Method<br>he product i<br>ther releva<br>t informatio<br>sment<br>es with end<br>or the aqua<br>ns. In the d                                                | Assessment<br>s easily biodegradable.<br>nt information available.<br>n available.                                                                                                                                                                                                                                                         | onsidera                    |
| Type or<br>LC50/2<br>LC50/4<br>NOEC<br>12.2 Pe<br>12.3 Bi<br>12.4 Mo<br>12.5 Re<br>PBT: N<br>vPvB: I<br>12.6 En<br>The pro<br>12.7 Ot<br>Additio<br>Genera<br>Rinse of<br>A low p<br>increas<br>water-d                                                            | c toxic<br>f test<br>4 h 1,5<br>8 h 44<br>42<br>ersister<br>oaccur<br>obility<br>esults c<br>lot appl<br>Not app<br>ndocrin<br>oduct do<br>her ad<br>onal ec<br>al notes<br>off of big<br>H-value<br>sed, so<br>langero                                                    | Effectiv<br>35 mg/l<br>35 mg/l (fi<br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br>5 mg/L ( <i>i</i><br>6 mg/L ( <i>i</i><br>7 mg/L ( <i>i</i> )<br>7 mg/L ( <i>i</i><br>7 mg/L ( <i>i</i> )<br>7 mg/L ( <i>i</i> | e conc<br>(daphr<br>ish)<br>Algae)<br>degrad<br>poten<br>lo furth<br>ind vP<br>contain<br>fects<br>inform<br>ounts i<br>aquati<br>er the u                                                 | centration<br>hia magna)<br>dability Th<br>tial No fur<br>er relevan<br>vB assess<br>substance<br>nation:<br>nto drains<br>c organism<br>use of the                                                                            | Method<br>he product i<br>ther releva<br>t informatio<br>sment<br>es with end<br>or the aqua<br>ns. In the d<br>product th                                  | Assessment s easily biodegradable. nt information available. n available. corrine disrupting properties. atic environment may lead to decreased ilution of the use-level the pH-value is co e aqueous waste, emptied into drains,                                                                                                          | onsidera                    |
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- Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

(Contd. on page 7)

(Contd. of page 6)

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Packagings that may not be cleansed are to be disposed of in the same manner as the product.

| SECTION 14: Transport information                                               | on                                                   |  |  |
|---------------------------------------------------------------------------------|------------------------------------------------------|--|--|
| <ul> <li>14.1 UN number or ID number</li> <li>ADR, ADN, IMDG, IATA</li> </ul>   | Void                                                 |  |  |
| <ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>  | Void                                                 |  |  |
| · 14.3 Transport hazard class(es)                                               |                                                      |  |  |
| · ADR, ADN, IMDG, IATA<br>· Class                                               | Void                                                 |  |  |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                                       | Void                                                 |  |  |
| · 14.5 Environmental hazards:                                                   | Not applicable.                                      |  |  |
| · 14.6 Special precautions for user                                             | Not applicable.                                      |  |  |
| 14.7 Maritime transport in bulk according to<br>IMO instruments Not applicable. |                                                      |  |  |
| · Transport/Additional information:                                             | Not dangerous according to the above specifications. |  |  |
| · UN "Model Regulation":                                                        | Void                                                 |  |  |

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed. • 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

(Contd. on page 8)

• \* Data compared to the previous version altered.

#### Annex: Exposure scenario

- · Short title of the exposure scenario Use in laboratories
- Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Solid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting worker exposure Avoid contact with eyes.
- · Other operational conditions affecting consumer exposure No special measures required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures
- Ensure that suitable extractors are available on processing machines
- Personal protective measures Do not inhale dust / smoke / mist. Avoid contact with the eyes. Tightly sealed goggles
- · Measures for consumer protection Ensure adequate labelling.
- Environmental protection measures
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system. **Waste type** Partially emptied and uncleaned packaging

- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

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