


SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** ZE 53
Other means of identification:
UFI: VJ40-N03E-G00K-VEQF
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 Relevant uses: Paint
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
 VITON s.r.o.
 Planá 90
 37001 České Budějovice - Czech Republic
 Phone: +420 381 581 022
 info@viton.cz
 www.viton.cz
- 1.4 Emergency telephone number:** Toxikologické informační středisko, Na bojišti 1, Prague, Phone: non-stop +420 224 919 293 or +420 224 915 402

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
 Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
 Eye Dam. 1: Serious eye damage, Category 1, H318
 Flam. Liq. 3: Flammable liquids, Category 3, H226
 Skin Irrit. 2: Skin irritation, Category 2, H315
 Skin Sens. 1: Sensitisation, skin, Category 1, H317
 STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2 (Oral), H373
 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**
CLP Regulation (EC) No 1272/2008:
Danger
- 
- Hazard statements:**
 Eye Dam. 1: H318 - Causes serious eye damage.
 Flam. Liq. 3: H226 - Flammable liquid and vapour.
 Skin Irrit. 2: H315 - Causes skin irritation.
 Skin Sens. 1: H317 - May cause an allergic skin reaction.
 STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).
 STOT SE 3: H335 - May cause respiratory irritation.
- Precautionary statements:**
 P101: If medical advice is needed, have product container or label at hand.
 P102: Keep out of reach of children.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P264: Wash thoroughly after handling.
 P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.
 P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment
- Substances that contribute to the classification**
 reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) (CAS: 25068-38-6); Xylene (CAS: 1330-20-7); butan-1-ol (CAS: 71-36-3)
UFI: VJ40-N03E-G00K-VEQF

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SECTION 2: HAZARDS IDENTIFICATION (continued)

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:







Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | | Concentration |
|--|--|---|----------------------|
| CAS: 25068-38-6 EC: 500-033-5 Index: 603-074-00-8 REACH: Non-applicable | reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) ¹ Self-classified | | 10 - <25 % |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning  | |
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX | Xylene ¹ Self-classified | | 10 - <25 % |
| | Regulation 1272/2008 | Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger  | |
| CAS: 71-36-3 EC: 200-751-6 Index: 603-004-00-6 REACH: 01-2119484630-38-XXXX | butan-1-ol ¹ ATP CLP00 | | 3 - <10 % |
| | Regulation 1272/2008 | Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger  | |
| CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH: 01-2119489370-35-XXXX | Ethylbenzene ² ATP ATP06 | | 0,1 - <1 % |
| | Regulation 1272/2008 | Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger  | |
| CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791-29-XXXX | 2-methoxy-1-methylethyl acetate ² Self-classified | | 0,1 - <1 % |
| | Regulation 1272/2008 | Flam. Liq. 3: H226; STOT SE 3: H336 - Warning  | |
| CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX | N-butyl acetate ² ATP CLP00 | | <0,1 % |
| | Regulation 1272/2008 | Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning  | |

¹ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

² Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

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SECTION 4: FIRST AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:****Suitable extinguishing media:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 5 °C
- Maximum Temp.: 25 °C
- Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | Occupational exposure limits | | |
|--|------------------------------|-----------------------|-----------------------|
| | IOELV (8h) | IOELV (STEL) | IOELV (STEL) |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | 50 ppm | 221 mg/m ³ | 442 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | 50 ppm | 241 mg/m ³ | 723 mg/m ³ |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | 100 ppm | 442 mg/m ³ | 884 mg/m ³ |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | 50 ppm | 275 mg/m ³ | 550 mg/m ³ |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|--|------------|----------------|----------------|------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 0,75 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 4,93 mg/m ³ | Non-applicable |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | Systemic | Local | Systemic | Local |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 212 mg/kg | Non-applicable |
| | Inhalation | 442 mg/m ³ | 442 mg/m ³ | 221 mg/m ³ | 221 mg/m ³ |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 310 mg/m ³ |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 180 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | 293 mg/m ³ | 77 mg/m ³ | Non-applicable |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 796 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | 550 mg/m ³ | 275 mg/m ³ | Non-applicable |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | 11 mg/kg | Non-applicable | 11 mg/kg | Non-applicable |
| | Inhalation | 600 mg/m ³ | 600 mg/m ³ | 300 mg/m ³ | 300 mg/m ³ |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|--|------------|-----------------------|-----------------------|--------------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | Oral | Non-applicable | Non-applicable | 0,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 0,0893 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 0,87 mg/m ³ | Non-applicable |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 125 mg/kg | Non-applicable |
| | Inhalation | 260 mg/m ³ | 260 mg/m ³ | 65,3 mg/m ³ | 65,3 mg/m ³ |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | Oral | Non-applicable | Non-applicable | 1,562 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 3,125 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 55,357 mg/m ³ | 155 mg/m ³ |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | Oral | Non-applicable | Non-applicable | 1,6 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 15 mg/m ³ | Non-applicable |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | Oral | Non-applicable | Non-applicable | 36 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 320 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 33 mg/m ³ | 33 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Oral | 2 mg/kg | Non-applicable | 2 mg/kg | Non-applicable |
| | Dermal | 6 mg/kg | Non-applicable | 6 mg/kg | Non-applicable |
| | Inhalation | 300 mg/m ³ | 300 mg/m ³ | 35,7 mg/m ³ | 35,7 mg/m ³ |

PNEC:

| Identification | | | | | |
|--|--------------|----------------|-------------------------|-------------|--|
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | STP | 10 mg/L | Fresh water | 0,006 mg/L | |
| | Soil | 0,065 mg/kg | Marine water | 0,001 mg/L | |
| | Intermittent | 0,018 mg/L | Sediment (Fresh water) | 0,341 mg/kg | |
| | Oral | 0,011 g/kg | Sediment (Marine water) | 0,034 mg/kg | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | STP | 6,58 mg/L | Fresh water | 0,327 mg/L | |
| | Soil | 2,31 mg/kg | Marine water | 0,327 mg/L | |
| | Intermittent | 0,327 mg/L | Sediment (Fresh water) | 12,46 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 12,46 mg/kg | |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | STP | 2476 mg/L | Fresh water | 0,082 mg/L | |
| | Soil | 0,017 mg/kg | Marine water | 0,008 mg/L | |
| | Intermittent | 2,25 mg/L | Sediment (Fresh water) | 0,324 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 0,032 mg/kg | |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



| Identification | | | | |
|---|--------------|----------------|-------------------------|-------------|
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | STP | 9,6 mg/L | Fresh water | 0,1 mg/L |
| | Soil | 2,68 mg/kg | Marine water | 0,01 mg/L |
| | Intermittent | 0,1 mg/L | Sediment (Fresh water) | 13,7 mg/kg |
| | Oral | 0,02 g/kg | Sediment (Marine water) | 1,37 mg/kg |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | STP | 100 mg/L | Fresh water | 0,635 mg/L |
| | Soil | 0,29 mg/kg | Marine water | 0,064 mg/L |
| | Intermittent | 6,35 mg/L | Sediment (Fresh water) | 3,29 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,329 mg/kg |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | STP | 35,6 mg/L | Fresh water | 0,18 mg/L |
| | Soil | 0,09 mg/kg | Marine water | 0,018 mg/L |
| | Intermittent | 0,36 mg/L | Sediment (Fresh water) | 0,981 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,098 mg/kg |

8.2 Exposure controls:



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|-----------------------------------|---|---------------------|--|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours |  | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands





| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|-------------------|--|
|  Mandatory hand protection | Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm) |  | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---------------------------------|---|
|  Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |



E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|--|---|
|  Mandatory complete body protection | Antistatic and fireproof protective clothing |  | EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2002 EN ISO 14116:2015 EN 1149-5:2018 | Limited protection against flames. |
|  Mandatory foot protection | Safety footwear with antistatic and heat resistant properties |  | EN ISO 13287:2020 EN ISO 20345:2011 | Replace boots at any sign of deterioration. |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|--|--|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

| | |
|---------------------------|---------------------------------|
| V.O.C. (Supply): | 22 % weight |
| V.O.C. density at 20 °C: | 308 kg/m ³ (308 g/L) |
| Average carbon number: | 7,22 |
| Average molecular weight: | 103,5 g/mol |

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

| | |
|--------------------------------------|---------------------------------|
| V.O.C. density at 20 °C: | 410 kg/m ³ (410 g/L) |
| EU limit for the product (Cat. A.J): | 500 g/L (2010) |
| Components: | Non-applicable |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|--|
| Physical state at 20 °C: | Liquid |
| Appearance: | Fluid |
| Colour: | According to the markings on the package |
| Odour: | Aromatic |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|-----------------------|
| Boiling point at atmospheric pressure: | 118 - 199 °C |
| Vapour pressure at 20 °C: | 786 Pa |
| Vapour pressure at 50 °C: | 4461,04 Pa (4,46 kPa) |
| Evaporation rate at 20 °C: | Non-applicable * |

Product description:

| | |
|--|------------------------|
| Density at 20 °C: | 1400 kg/m ³ |
| Relative density at 20 °C: | 1,4 |
| Dynamic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 20 °C: | 505 mm ² /s |
| Kinematic viscosity at 40 °C: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 °C: | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Solubility in water at 20 °C: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|----------------------------------|------------------|
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |
| Flammability: | |
| Flash Point: | 26 °C |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 315 °C |
| Lower flammability limit: | Not available |
| Upper flammability limit: | Not available |
| Particle characteristics: | |
| Median equivalent diameter: | Non-applicable |

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|--|------------------|
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Corrosive to metals: | Non-applicable * |
| Heat of combustion: | Non-applicable * |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |

Other safety characteristics:

| | |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: Xylene (3); Ethylbenzene (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|--|-----------------|------------------|--------|
| | LD50 oral | LD50 dermal | |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | LD50 oral | 800 mg/kg | Rat |
| | LD50 dermal | 3430 mg/kg | Rabbit |
| | LC50 inhalation | 24,66 mg/L (4 h) | Rat |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation | 11 mg/L (ATEi) | |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | LD50 oral | >2000 mg/kg | |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >5 mg/L | |

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| Identification | Acute toxicity | | Genus |
|---|-----------------|-------------|--------|
| | LD50 oral | LD50 dermal | |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | 3500 mg/kg | 15354 mg/kg | Rat |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | 17,2 mg/L (4 h) | 8532 mg/kg | Rat |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | >5000 mg/kg | 12789 mg/kg | Rat |
| | 30 mg/L (4 h) | 14112 mg/kg | Rabbit |
| | 23,4 mg/L (4 h) | | Rat |

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

| Identification | Concentration | | Species | Genus |
|---|-----------------------|-----------------------|-------------------------|------------|
| | LC50 | EC50 | | |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | >10 - 100 mg/L (96 h) | >10 - 100 mg/L (48 h) | | Fish |
| | >10 - 100 mg/L (72 h) | | | Crustacean |
| | | | | Algae |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | 1740 mg/L (96 h) | 1983 mg/L (48 h) | Pimephales promelas | Fish |
| | 500 mg/L (96 h) | | Daphnia magna | Crustacean |
| | | | Scenedesmus subspicatus | Algae |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | 42,3 mg/L (96 h) | 75 mg/L (48 h) | Pimephales promelas | Fish |
| | 63 mg/L (3 h) | | Daphnia magna | Crustacean |
| | | | Chlorella vulgaris | Algae |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | 161 mg/L (96 h) | 481 mg/L (48 h) | Pimephales promelas | Fish |
| | Non-applicable | | Daphnia sp. | Crustacean |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Non-applicable | | | |
| | 675 mg/L (72 h) | | Scenedesmus subspicatus | Algae |

Chronic toxicity:

| Identification | Concentration | | Species | Genus |
|---|----------------|---------------|---------------------|------------|
| | NOEC | Concentration | | |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | Non-applicable | | | |
| | 0,3 mg/L | | Daphnia magna | Crustacean |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | 1,3 mg/L | | Oncorhynchus mykiss | Fish |
| | 1,17 mg/L | | Ceriodaphnia dubia | Crustacean |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | Non-applicable | | | |
| | 4,1 mg/L | | Daphnia magna | Crustacean |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | Non-applicable | | | |
| | 0,96 mg/L | | Ceriodaphnia dubia | Crustacean |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | 47,5 mg/L | | Oryzias latipes | Fish |
| | 100 mg/L | | Daphnia magna | Crustacean |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Non-applicable | | | |
| | 23,2 mg/L | | Daphnia magna | Crustacean |

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Degradability | | Biodegradability | |
|--|---------------|----------------|------------------|----------------|
| | Parameter | Value | Parameter | Value |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 0 % |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 88 % |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | BOD5 | 1,71 g O2/g | Concentration | Non-applicable |
| | COD | 2,46 g O2/g | Period | 19 days |
| | BOD5/COD | 0,7 | % Biodegradable | 98 % |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 14 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | BOD5 | Non-applicable | Concentration | 785 mg/L |
| | COD | Non-applicable | Period | 8 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 100 % |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 5 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 84 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| Identification | Bioaccumulation potential | |
|--|---------------------------|-------|
| | Parameter | Value |
| reaction product: bisphenol-A-(epichlorhydrin) (700 < MW < 1100) CAS: 25068-38-6 EC: 500-033-5 | BCF | 4 |
| | Pow Log | 2.8 |
| | Potential | Low |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | BCF | 1 |
| | Pow Log | 0.88 |
| | Potential | Low |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | BCF | 1 |
| | Pow Log | 3.15 |
| | Potential | Low |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | BCF | 1 |
| | Pow Log | 0.43 |
| | Potential | Low |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | BCF | 4 |
| | Pow Log | 1.78 |
| | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|---|-----------------------|----------------------|------------|--------------------------------|
| | Parameter | Value | Parameter | Value |
| Xylene CAS: 1330-20-7 EC: 215-535-7 | Koc | 202 | Henry | 524,86 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| butan-1-ol CAS: 71-36-3 EC: 200-751-6 | Koc | 2.44 | Henry | 5,39E-2 Pa·m ³ /mol |
| | Conclusion | Very High | Dry soil | Yes |
| | Surface tension | 2,567E-2 N/m (25 °C) | Moist soil | Yes |

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SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification | Absorption/desorption | | Volatility | |
|-----------------|-----------------------|----------------------|------------|-------------------------------|
| Ethylbenzene | Koc | 520 | Henry | 798,44 Pa·m ³ /mol |
| CAS: 100-41-4 | Conclusion | Moderate | Dry soil | Yes |
| EC: 202-849-4 | Surface tension | 2,859E-2 N/m (25 °C) | Moist soil | Yes |
| N-butyl acetate | Koc | Non-applicable | Henry | Non-applicable |
| CAS: 123-86-4 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 204-658-1 | Surface tension | 2,478E-2 N/m (25 °C) | Moist soil | Non-applicable |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Dangerous |

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



- 14.1 UN number or ID number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3
- Labels: 3
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
- Special regulations: 163, 367, 650
- Tunnel restriction code: D/E
- Physico-Chemical properties: see section 9
- Limited quantities: 5 L
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

NOTE: Not applicable in receptacles of less than 450 litres (2.2.3.1.5)

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SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- 14.1 UN number or ID number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3
Labels: 3
- 14.4 Packing group:** III
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
Special regulations: 223, 955, 163, 367
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

NOTE: Not applicable in receptacles of less than 30 litres (2.3.2.5)

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



- 14.1 UN number or ID number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3
Labels: 3
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
 Article 95, REGULATION (EU) No 528/2012: Non-applicable
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------|-------------------------|-------------------------|
| P5c | FLAMMABLE LIQUIDS | 5000 | 50000 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:
 —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 —tricks and jokes,
 —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

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SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure (Oral).

H317: May cause an allergic skin reaction.

H226: Flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method

STOT SE 3: Calculation method

STOT RE 2: Calculation method

Skin Sens. 1: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -