



Safety data sheet
This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878,
without any country-specific legislation

**037890 - ESMALTE SINTETICO ANTIOXIDANTE
OX BRILLO Verde oscuro**



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

- 1.1 Product identifier:** 037890 - ESMALTE SINTETICO ANTIOXIDANTE OX BRILLO Verde oscuro
Other means of identification:
UFI: EC30-N076-400E-MJ2U
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Coating for metal
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:**
Productos JAFEP, S.L.
Carretera de Barrax, s/n
02630 La Roda - Albacete - Spain
Phone: +34 967 44 05 96 - Fax: +34 967 44 26 12
jafep@jafep.com
www.jafep.com
- 1.4 Emergency telephone number:** +34 967 44 05 96 (9:00-14:00 ; 16:00-20:00)

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.
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
STOT RE 1: Specific target organ toxicity — Repeated exposure, Hazard Category 1 (Inhalation), H372
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Toxic to aquatic life with long lasting effects.
Flammable liquid and vapour.
May cause an allergic skin reaction.
Causes damage to organs through prolonged or repeated exposure (Inhalation).
May cause drowsiness or dizziness.

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

Repeated exposure may cause skin dryness or cracking.
Contains maleic anhydride.
Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Substances that contribute to the classification

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclics, <2% aromatics; Hydrocarbons, C9, aromatics; Cobalt bis(2-ethylhexanoate)

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** Changes with regards to the previous version

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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.

*** Changes with regards to the previous version*

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Miscellaneous products

Components:

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

| Identification | Chemical name/Classification | Concentration |
|---|--|----------------|
| CAS: 64742-82-1 EC: 919-446-0 Index: Non-applicable REACH: 01-2119458049-33-XXXX | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H372; STOT SE 3: H336; EUH066 - Danger | 19 - <24 % |
| CAS: 64742-48-9 EC: 919-857-5 Index: Non-applicable REACH: 01-2119463258-33-XXXX | Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclics, <2% aromatics⁽¹⁾ Self-classified Regulation 1272/2008 Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Danger | 4,9 - <9,9 % |
| CAS: 7779-90-0 EC: 231-944-3 Index: Non-applicable REACH: 01-2119485044-40-XXXX | trizinc bis(orthophosphate)⁽¹⁾ ATP CLP00 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | 4,9 - <9,9 % |
| CAS: Non-applicable EC: 918-481-9 Index: Non-applicable REACH: 01-2119457273-39-XXXX | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics⁽¹⁾ Self-classified Regulation 1272/2008 Asp. Tox. 1: H304; EUH066 - Danger | 2,4 - <4,9 % |
| CAS: 64742-95-6 EC: 918-668-5 Index: Non-applicable REACH: 01-2119455851-35-XXXX | Hydrocarbons, C9, aromatics⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger | 0,9 - <2,4 % |
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX | Xylene⁽¹⁾ Self-classified 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 | 0,9 - <2,4 % |
| CAS: 22464-99-9 EC: 245-018-1 Index: Non-applicable REACH: 01-2119979088-21-XXXX | 2-ethylhexanoic acid, zirconium salt⁽¹⁾ Self-classified Regulation 1272/2008 Repr. 2: H361d - Warning | 0,29 - <0,9 % |
| CAS: 136-52-7 EC: 205-250-6 Index: Non-applicable REACH: 01-2119524678-29-XXXX | Cobalt bis(2-ethylhexanoate)⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360Fd; Skin Sens. 1A: H317 - Danger | 0,09 - <0,24 % |
| CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX | N-butyl acetate⁽²⁾ ATP CLP00 Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning | 0,09 - <0,24 % |
| CAS: Non-applicable EC: 905-588-0 Index: Non-applicable REACH: 01-2119539452-40-XXXX | Reaction mass of ethylbenzene and xylene⁽²⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H312+H332; 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 | 0,09 - <0,24 % |

⁽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

*** Changes with regards to the previous version*

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

| Identification | Chemical name/Classification | Concentration |
|---|---|---------------|
| CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH: 01-2119489370-35-XXXX | Ethylbenzene⁽²⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger | <0,09 % |
| 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 Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336 - Warning | <0,09 % |
| CAS: 34590-94-8 EC: 252-104-2 Index: Non-applicable REACH: 01-2119450011-60-XXXX | Dipropylene Glycol Methyl Ether⁽²⁾ Not classified Regulation 1272/2008 | <0,09 % |
| CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH: 01-2119489370-35-XXXX | Ethylbenzene⁽²⁾ ATP ATP06 Regulation 1272/2008 Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger | <0,09 % |
| CAS: 108-88-3 EC: 203-625-9 Index: 601-021-00-3 REACH: 01-2119471310-51-XXXX | Toluene⁽²⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger | <0,09 % |
| CAS: 108-31-6 EC: 203-571-6 Index: 607-096-00-9 REACH: 01-2119472428-31-XXXX | maleic anhydride⁽¹⁾ ATP ATP13 Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Corr. 1B: H314; Skin Sens. 1A: H317; STOT RE 1: H372; EUH071 - Danger | <0,09 % |

⁽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.

Other information:

| Identification | Specific concentration limit |
|--|---------------------------------------|
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | % (w/w) >=10: STOT RE 2 - H373 |
| maleic anhydride CAS: 108-31-6 EC: 203-571-6 | % (w/w) >=0,001: Skin Sens. 1A - H317 |

** Changes with regards to the previous version

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:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

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SECTION 4: FIRST AID MEASURES (continued)

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. Destroy 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:

See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

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SECTION 7: HANDLING AND STORAGE (continued)

A.- Precautions for safe manipulation

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 to prevent ergonomic and toxicological risks

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

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

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 | | |
|---|--|------------------------------|---------|-----------------------|
| Xylene CAS: 1330-20-7 EC: 215-535-7 | | IOELV (8h) | 50 ppm | 221 mg/m ³ |
| | | IOELV (STEL) | 100 ppm | 442 mg/m ³ |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | | IOELV (8h) | 50 ppm | 241 mg/m ³ |
| | | IOELV (STEL) | 150 ppm | 723 mg/m ³ |
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | | IOELV (8h) | 50 ppm | 221 mg/m ³ |
| | | IOELV (STEL) | 100 ppm | 442 mg/m ³ |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | | IOELV (8h) | 100 ppm | 442 mg/m ³ |
| | | IOELV (STEL) | 200 ppm | 884 mg/m ³ |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | | IOELV (8h) | 50 ppm | 275 mg/m ³ |
| | | IOELV (STEL) | 100 ppm | 550 mg/m ³ |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | | IOELV (8h) | 50 ppm | 308 mg/m ³ |
| | | IOELV (STEL) | | |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | | IOELV (8h) | 100 ppm | 442 mg/m ³ |
| | | IOELV (STEL) | 200 ppm | 884 mg/m ³ |
| Toluene CAS: 108-88-3 EC: 203-625-9 | | IOELV (8h) | 50 ppm | 192 mg/m ³ |
| | | IOELV (STEL) | 100 ppm | 384 mg/m ³ |

DNEL (Workers):

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|-------------------------|--------------------------|
| | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: 64742-82-1 EC: 919-446-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 21 mg/kg | Non-applicable |
| | Inhalation | 570 mg/m ³ | Non-applicable | 330 mg/m ³ | Non-applicable |
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 5 mg/m ³ | Non-applicable |
| Hydrocarbons, C9, aromatics CAS: 64742-95-6 EC: 918-668-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 25 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 150 mg/m ³ | Non-applicable |
| 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 |
| 2-ethylhexanoic acid, zirconium salt CAS: 22464-99-9 EC: 245-018-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 6,49 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 32,97 mg/m ³ | Non-applicable |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | 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 | 0,2351 mg/m ³ |
| 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 |
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | 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 |
| 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 |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 283 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 308 mg/m ³ | Non-applicable |
| 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 |
| Toluene CAS: 108-88-3 EC: 203-625-9 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 384 mg/kg | Non-applicable |
| | Inhalation | 384 mg/m ³ | 384 mg/m ³ | 192 mg/m ³ | 192 mg/m ³ |
| maleic anhydride CAS: 108-31-6 EC: 203-571-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | 0,2 mg/m ³ | 0,2 mg/m ³ | 0,081 mg/m ³ | 0,081 mg/m ³ |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|----------------|----------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: 64742-82-1 EC: 919-446-0 | Oral | Non-applicable | Non-applicable | 21 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 12 mg/kg | Non-applicable |
| | Inhalation | 570 mg/m ³ | Non-applicable | 71 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 |
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | Oral | Non-applicable | Non-applicable | 0,83 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2,5 mg/m ³ | Non-applicable |
| Hydrocarbons, C9, aromatics CAS: 64742-95-6 EC: 918-668-5 | Oral | Non-applicable | Non-applicable | 11 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 11 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 32 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 |
| 2-ethylhexanoic acid, zirconium salt CAS: 22464-99-9 EC: 245-018-1 | Oral | Non-applicable | Non-applicable | 4,51 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 3,25 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 8,13 mg/m ³ | Non-applicable |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | Oral | Non-applicable | Non-applicable | 0,175 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | Non-applicable | 0,037 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 |
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | 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 |
| 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 |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | Oral | Non-applicable | Non-applicable | 36 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 121 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 37,2 mg/m ³ | Non-applicable |
| 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 |
| Toluene CAS: 108-88-3 EC: 203-625-9 | Oral | Non-applicable | Non-applicable | 8,13 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 226 mg/kg | Non-applicable |
| | Inhalation | 226 mg/m ³ | 226 mg/m ³ | 56,5 mg/m ³ | 56,5 mg/m ³ |

PNEC:

| Identification | | | | | |
|--|--------------|----------------|-------------------------|--------------|--|
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | STP | 0,1 mg/L | Fresh water | 0,0206 mg/L | |
| | Soil | 35,6 mg/kg | Marine water | 0,0061 mg/L | |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 117,8 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 56,5 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 | |
| Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6 | STP | 0,37 mg/L | Fresh water | 0,00062 mg/L | |
| | Soil | 10,9 mg/kg | Marine water | 0,00236 mg/L | |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 53,8 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 69,8 mg/kg | |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | | |
|--|--------------|----------------|-------------------------|-------------|--|
| 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 | |
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | 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 | |
| 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 | |
| Dipropylene Glycol Methyl Ether CAS: 34590-94-8 EC: 252-104-2 | STP | 4168 mg/L | Fresh water | 19 mg/L | |
| | Soil | 2,74 mg/kg | Marine water | 1,9 mg/L | |
| | Intermittent | 190 mg/L | Sediment (Fresh water) | 70,2 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 7,02 mg/kg | |
| 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 | |
| Toluene CAS: 108-88-3 EC: 203-625-9 | STP | 13,61 mg/L | Fresh water | 0,68 mg/L | |
| | Soil | 2,89 mg/kg | Marine water | 0,68 mg/L | |
| | Intermittent | 0,68 mg/L | Sediment (Fresh water) | 16,39 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 16,39 mg/kg | |
| maleic anhydride CAS: 108-31-6 EC: 203-571-6 | STP | 44,6 mg/L | Fresh water | 0,038 mg/L | |
| | Soil | 0,037 mg/kg | Marine water | 0,004 mg/L | |
| | Intermittent | 0,379 mg/L | Sediment (Fresh water) | 0,296 mg/kg | |
| | Oral | Non-applicable | Sediment (Marine water) | 0,03 mg/kg | |



8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional 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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)





| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---|--|
|  Mandatory hand protection | NON-disposable chemical protective gloves |  | EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 420:2004+A1:2010 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

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.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|-------------|---|---|---|
|  Mandatory face protection | Face shield |  | EN 166:2002 EN 167:2002 EN 168:2002 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 | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties |  | EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |
|  Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties |  | EN ISO 13287:2013 EN ISO 20345:2011 EN 13832-1:2019 | Replace boots at any sign of deterioration. |

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): | 39,53 % weight |
| V.O.C. density at 20 °C: | 415,23 kg/m ³ (415,23 g/L) |
| Average carbon number: | 9,48 |
| Average molecular weight: | 126,55 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: | 425,1 kg/m ³ (425,1 g/L) |
| EU limit for the product (Cat. A.I): | 500 g/L (2010) |
| Components: | Non-applicable |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

*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)

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|---|
| Physical state at 20 °C: | Liquid |
| Appearance: | Viscous |
| Colour: |  Green |
| Odour: | Characteristic |
| Odour threshold: | Non-applicable * |

Volatility:

| | |
|--|-----------------------|
| Boiling point at atmospheric pressure: | 160 °C |
| Vapour pressure at 20 °C: | 216 Pa |
| Vapour pressure at 50 °C: | 1607,88 Pa (1,61 kPa) |
| Evaporation rate at 20 °C: | Non-applicable * |

Product description:

| | |
|--|-----------------------------------|
| Density at 20 °C: | 1000,4 - 1100,4 kg/m ³ |
| Relative density at 20 °C: | 1,05 |
| Dynamic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 20 °C: | Non-applicable * |
| Kinematic viscosity at 40 °C: | >20,5 mm ² /s |
| 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 * |
| Solubility properties: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

Flammability:

| | |
|----------------------------|------------------|
| Flash Point: | 39 °C |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 265 °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.

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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 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 | 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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

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

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

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

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

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

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclics, <2% aromatics (3); Hydrocarbons, C9, aromatics (3); Xylene (3); Ethylbenzene (2B); Toluene (3); Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (3); Reaction mass of ethylbenzene and xylene (3); Titanium dioxide (2B); Carbon black (2B); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (3); Cobalt bis(2-ethylhexanoate) (2B); Fatty acids, C6-19-branched, cobalt(2+) salts (2B); Ethylbenzene (2B)

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

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

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single 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.

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

- Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged inhalation, including death, serious functional disorders or morphological changes of toxicological importance.

- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|--|-----------------|-----------------|--------|
| 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) | |
| Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclics, <2% aromatics CAS: 64742-48-9 EC: 919-857-5 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| 2-ethylhexanoic acid, zirconium salt CAS: 22464-99-9 EC: 245-018-1 | LD50 oral | 2043 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | LD50 oral | 12789 mg/kg | Rat |
| | LD50 dermal | 14112 mg/kg | Rabbit |
| | LC50 inhalation | 23,4 mg/L (4 h) | Rat |
| Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation | 11 mg/L (4 h) | Rat |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | LD50 oral | 3500 mg/kg | Rat |
| | LD50 dermal | 15354 mg/kg | Rabbit |
| | LC50 inhalation | 17,2 mg/L (4 h) | Rat |
| 2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9 | LD50 oral | 8532 mg/kg | Rat |
| | LD50 dermal | >5000 mg/kg | Rat |
| | LC50 inhalation | 30 mg/L (4 h) | Rat |

** Changes with regards to the previous version

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

| Identification | Acute toxicity | | Genus |
|----------------|-----------------|-----------------|--------|
| Ethylbenzene | LD50 oral | 3500 mg/kg | Rat |
| CAS: 100-41-4 | LD50 dermal | 15354 mg/kg | Rabbit |
| EC: 202-849-4 | LC50 inhalation | 17,2 mg/L (4 h) | Rat |
| Toluene | LD50 oral | 5580 mg/kg | Rat |
| CAS: 108-88-3 | LD50 dermal | 12124 mg/kg | Rat |
| EC: 203-625-9 | LC50 inhalation | 28,1 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

*** Changes with regards to the previous version*

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 |
|---|-----------------------|---------|------------|
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | LC50 >1 - 10 (96 h) | | Fish |
| CAS: 64742-82-1 | EC50 >1 - 10 (48 h) | | Crustacean |
| EC: 919-446-0 | EC50 >1 - 10 (72 h) | | Algae |
| trizinc bis(orthophosphate) | LC50 >0.1 - 1 (96 h) | | Fish |
| CAS: 7779-90-0 | EC50 >0.1 - 1 (48 h) | | Crustacean |
| EC: 231-944-3 | EC50 >0.1 - 1 (72 h) | | Algae |
| Hydrocarbons, C9, aromatics | LC50 >1 - 10 (96 h) | | Fish |
| CAS: 64742-95-6 | EC50 >1 - 10 (48 h) | | Crustacean |
| EC: 918-668-5 | EC50 >1 - 10 (72 h) | | Algae |
| Xylene | LC50 >10 - 100 (96 h) | | Fish |
| CAS: 1330-20-7 | EC50 >10 - 100 (48 h) | | Crustacean |
| EC: 215-535-7 | EC50 >10 - 100 (72 h) | | Algae |

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Concentration | Species | Genus |
|--------------------------------------|------------------------|-------------------------|------------|
| 2-ethylhexanoic acid, zirconium salt | LC50 270 mg/L (96 h) | N/A | Fish |
| CAS: 22464-99-9 | EC50 Non-applicable | | |
| EC: 245-018-1 | EC50 Non-applicable | | |
| Cobalt bis(2-ethylhexanoate) | LC50 >0.1 - 1 (96 h) | | Fish |
| CAS: 136-52-7 | EC50 >0.1 - 1 (48 h) | | Crustacean |
| EC: 205-250-6 | EC50 >0.1 - 1 (72 h) | | Algae |
| N-butyl acetate | LC50 Non-applicable | | |
| CAS: 123-86-4 | EC50 Non-applicable | | |
| EC: 204-658-1 | EC50 675 mg/L (72 h) | Scenedesmus subspicatus | Algae |
| Ethylbenzene | LC50 42,3 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 100-41-4 | EC50 75 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 202-849-4 | EC50 63 mg/L (3 h) | Chlorella vulgaris | Algae |
| 2-methoxy-1-methylethyl acetate | LC50 161 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 108-65-6 | EC50 481 mg/L (48 h) | Daphnia sp. | Crustacean |
| EC: 203-603-9 | EC50 Non-applicable | | |
| Dipropylene Glycol Methyl Ether | LC50 10000 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 34590-94-8 | EC50 1919 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 252-104-2 | EC50 Non-applicable | | |
| Ethylbenzene | LC50 42,3 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 100-41-4 | EC50 75 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 202-849-4 | EC50 63 mg/L (3 h) | Chlorella vulgaris | Algae |
| Toluene | LC50 13 mg/L (96 h) | Carassius auratus | Fish |
| CAS: 108-88-3 | EC50 11,5 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 203-625-9 | EC50 Non-applicable | | |

Chronic toxicity:

| Identification | Concentration | Species | Genus |
|--------------------------------------|---------------------|---------------------|------------|
| Xylene | NOEC 1,3 mg/L | Oncorhynchus mykiss | Fish |
| CAS: 1330-20-7 EC: 215-535-7 | NOEC 1,17 mg/L | Ceriodaphnia dubia | Crustacean |
| 2-ethylhexanoic acid, zirconium salt | NOEC Non-applicable | | |
| CAS: 22464-99-9 EC: 245-018-1 | NOEC 25 mg/L | Daphnia magna | Crustacean |
| Cobalt bis(2-ethylhexanoate) | NOEC 0,21 mg/L | Pimephales promelas | Fish |
| CAS: 136-52-7 EC: 205-250-6 | NOEC 0,1697 mg/L | Aeolosoma sp. | Crustacean |
| N-butyl acetate | NOEC Non-applicable | | |
| CAS: 123-86-4 EC: 204-658-1 | NOEC 23,2 mg/L | Daphnia magna | Crustacean |

** Changes with regards to the previous version

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Concentration | Species | Genus |
|--|---------------------|---------------------|------------|
| Reaction mass of ethylbenzene and xylene | NOEC 1,3 mg/L | Oncorhynchus mykiss | Fish |
| CAS: Non-applicable EC: 905-588-0 | NOEC 1,17 mg/L | Ceriodaphnia dubia | Crustacean |
| Ethylbenzene | NOEC Non-applicable | | |
| CAS: 100-41-4 EC: 202-849-4 | NOEC 0,96 mg/L | Ceriodaphnia dubia | Crustacean |
| 2-methoxy-1-methylethyl acetate | NOEC 47,5 mg/L | Oryzias latipes | Fish |
| CAS: 108-65-6 EC: 203-603-9 | NOEC 100 mg/L | Daphnia magna | Crustacean |
| Dipropylene Glycol Methyl Ether | NOEC Non-applicable | | |
| CAS: 34590-94-8 EC: 252-104-2 | NOEC 0,5 mg/L | Daphnia magna | Crustacean |
| Ethylbenzene | NOEC Non-applicable | | |
| CAS: 100-41-4 EC: 202-849-4 | NOEC 0,96 mg/L | Ceriodaphnia dubia | Crustacean |

12.2 Persistence and degradability:

| Identification | Degradability | Biodegradability |
|---|-------------------------|------------------------------|
| Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics | BOD5 Non-applicable | Concentration Non-applicable |
| CAS: 64742-48-9 | COD Non-applicable | Period 28 days |
| EC: 919-857-5 | BOD5/COD Non-applicable | % Biodegradable 80 % |
| Xylene | BOD5 Non-applicable | Concentration Non-applicable |
| CAS: 1330-20-7 | COD Non-applicable | Period 28 days |
| EC: 215-535-7 | BOD5/COD Non-applicable | % Biodegradable 88 % |
| 2-ethylhexanoic acid, zirconium salt | BOD5 Non-applicable | Concentration 20 mg/L |
| CAS: 22464-99-9 | COD Non-applicable | Period 28 days |
| EC: 245-018-1 | BOD5/COD Non-applicable | % Biodegradable 99 % |
| N-butyl acetate | BOD5 Non-applicable | Concentration Non-applicable |
| CAS: 123-86-4 | COD Non-applicable | Period 5 days |
| EC: 204-658-1 | BOD5/COD Non-applicable | % Biodegradable 84 % |
| Ethylbenzene | BOD5 Non-applicable | Concentration 100 mg/L |
| CAS: 100-41-4 | COD Non-applicable | Period 14 days |
| EC: 202-849-4 | BOD5/COD Non-applicable | % Biodegradable 90 % |
| 2-methoxy-1-methylethyl acetate | BOD5 Non-applicable | Concentration 785 mg/L |
| CAS: 108-65-6 | COD Non-applicable | Period 8 days |
| EC: 203-603-9 | BOD5/COD Non-applicable | % Biodegradable 100 % |
| Dipropylene Glycol Methyl Ether | BOD5 Non-applicable | Concentration Non-applicable |
| CAS: 34590-94-8 | COD 0 g O2/g | Period 28 days |
| EC: 252-104-2 | BOD5/COD Non-applicable | % Biodegradable 73 % |

** Changes with regards to the previous version

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Degradability | Biodegradability |
|----------------|---------------|------------------|
| Ethylbenzene | BOD5 | Non-applicable |
| CAS: 100-41-4 | COD | Non-applicable |
| EC: 202-849-4 | BOD5/COD | Non-applicable |
| Toluene | BOD5 | 2,5 g O2/g |
| CAS: 108-88-3 | COD | Non-applicable |
| EC: 203-625-9 | BOD5/COD | Non-applicable |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential |
|--|---------------------------|
| Xylene | BCF |
| CAS: 1330-20-7 | Pow Log |
| EC: 215-535-7 | Potential |
| 2-ethylhexanoic acid, zirconium salt | BCF |
| CAS: 22464-99-9 | Pow Log |
| EC: 245-018-1 | Potential |
| N-butyl acetate | BCF |
| CAS: 123-86-4 | Pow Log |
| EC: 204-658-1 | Potential |
| Reaction mass of ethylbenzene and xylene | BCF |
| CAS: Non-applicable | Pow Log |
| EC: 905-588-0 | Potential |
| Ethylbenzene | BCF |
| CAS: 100-41-4 | Pow Log |
| EC: 202-849-4 | Potential |
| 2-methoxy-1-methylethyl acetate | BCF |
| CAS: 108-65-6 | Pow Log |
| EC: 203-603-9 | Potential |
| Dipropylene Glycol Methyl Ether | BCF |
| CAS: 34590-94-8 | Pow Log |
| EC: 252-104-2 | Potential |
| Ethylbenzene | BCF |
| CAS: 100-41-4 | Pow Log |
| EC: 202-849-4 | Potential |

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | Bioaccumulation potential | |
|----------------|---------------------------|----------|
| Toluene | BCF | 90 |
| CAS: 108-88-3 | Pow Log | 2.73 |
| EC: 203-625-9 | Potential | Moderate |

12.4 Mobility in soil:

| Identification | Absorption/desorption | | Volatility | |
|--|-----------------------|--------------------------|------------|--------------------------------|
| 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 |
| 2-ethylhexanoic acid, zirconium salt CAS: 22464-99-9 EC: 245-018-1 | Koc | Non-applicable | Henry | 2,94E-1 Pa·m ³ /mol |
| | Conclusion | Non-applicable | Dry soil | Yes |
| | Surface tension | Non-applicable | Moist soil | Yes |
| N-butyl acetate CAS: 123-86-4 EC: 204-658-1 | Koc | Non-applicable | Henry | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 2,478E-2 N/m (25 °C) | Moist soil | Non-applicable |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | Koc | 520 | Henry | 798,44 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | 2,859E-2 N/m (25 °C) | Moist soil | Yes |
| Ethylbenzene CAS: 100-41-4 EC: 202-849-4 | Koc | 520 | Henry | 798,44 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | 2,859E-2 N/m (25 °C) | Moist soil | Yes |
| Toluene CAS: 108-88-3 EC: 203-625-9 | Koc | 178 | Henry | 672,8 Pa·m ³ /mol |
| | Conclusion | Moderate | Dry soil | Yes |
| | Surface tension | 2,793E-2 N/m (25 °C) | Moist soil | Yes |
| maleic anhydride CAS: 108-31-6 EC: 203-571-6 | Koc | Non-applicable | Henry | Non-applicable |
| | Conclusion | Non-applicable | Dry soil | Non-applicable |
| | Surface tension | 1,673E-2 N/m (250,21 °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

**** Changes with regards to the previous version**

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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):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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. We do not recommended disposal down the drain. 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: | Yes |
| | 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 |

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

| | | |
|---|--|--------------------|
|   | 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: | Yes |
| | 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 |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2021:

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OX BRILLO Verde oscuro**



SECTION 14: TRANSPORT INFORMATION (continued)



- 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: Yes
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 |
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

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.

Contains Decamethylcyclotetrasiloxane, Octamethylcyclotetrasiloxane. 1. | Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. | 2. | For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.'

Occupational exposure to respirable crystalline silica must be controlled pursuant to Directive (EU) 2019/130.

Specific provisions in terms of protecting people or the environment:

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.:

** Changes with regards to the previous version

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Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

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SECTION 16: OTHER INFORMATION ** (continued)

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - maleic anhydride (108-31-6)
 - Ethylbenzene (100-41-4)
 - Reaction mass of ethylbenzene and xylene
 - 2-methoxy-1-methylethyl acetate (108-65-6)
 - Toluene (108-88-3)
- Removed substances
 - Toluene (108-88-3)
 - Xylene (1330-20-7)
 - 1-methoxy-2-propanol (107-98-2)
 - 2-methoxy-1-methylethyl acetate (108-65-6)
 - 2-butanone oxime (96-29-7)
 - Mesitylene (108-67-8)
 - Barium bis(di C8-C10, branched, C9 rich, alkyl naphthalenesulphonate)

Product contains PBT/vPvB substances (SECTION 2, SECTION 12):

- Removed substances
 - Decamethylcyclopentasiloxane (541-02-6)
 - Octamethylcyclotetrasiloxane (556-67-2)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Hazard statements
- Precautionary statements
- Supplementary information
- Substances contained in EUH208:
 - New declared substances
 - maleic anhydride (108-31-6)
 - Removed substances
 - 2-butanone oxime (96-29-7)

Texts of the legislative phrases mentioned in section 2:

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

H372: Causes damage to organs through prolonged or repeated exposure (Inhalation).

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:



Safety data sheet

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SECTION 16: OTHER INFORMATION ** (continued)

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 Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
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.
Repr. 1B: H360Fd - May damage fertility. Suspected of damaging the unborn child.
Repr. 2: H361d - Suspected of damaging the unborn child.
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation).
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:

STOT SE 3: Calculation method
Aquatic Chronic 2: Calculation method
STOT RE 1: Calculation method
Skin Sens. 1A: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)

Advice related to training:

Minimal 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:

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

**** Changes with regards to the previous version**

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 -