



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

- 1.1 Product identifier:** IMPRIMACION MULTISOPORTE BLANCA - Código - 27040
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Anticorrosion primer  
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:**  
INDUSTRIAS JUNO, S.A.  
Barrio Sakonj, 10  
48950 ERANDIO - Vizcaya - España  
Phone.: +34 944 670 062 - Fax: +34 944 675 832  
laboratorio@juno.es  
www.juno.es
- 1.4 Emergency telephone number:** +34 944 670 062 ( 8:00 -15:00)

**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.  
Acute Tox. 4: Acute inhalation toxicity, Category 4, H332  
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411  
Flam. Liq. 3: Flammable liquids, Category 3, H226  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

**Warning**



**Hazard statements:**

Acute Tox. 4: H332 - Harmful if inhaled  
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Skin Irrit. 2: H315 - Causes skin irritation  
Skin Sens. 1A: H317 - May cause an allergic skin reaction

**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/eye protection/face protection  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish  
P501: Dispose of contents/container according to the separated collection system used in your municipality

**Supplementary information:**

Contains Butanone oxime, Cobalt bis(2-ethylhexanoate), Reaction mass of: N,N-Ethane-1,2-diylbis(decanamide)/12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide/N,N-Ethane-1,2-diylbis(12-hydroxyoctadecanamide), Rosin

**Substances that contribute to the classification**

Xylene (CAS: 1330-20-7); Xylene (CAS: 1330-20-7); Ethylbenzene (CAS: 100-41-4); Reaction products of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine

**Acute Toxicity Estimate (ATE mix):**

49,58 % (dermal), 82,14 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

\*\* 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

\*\* Changes with regards to the previous version

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\***

**3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Mixture composed of pigments and resins

**Components:**

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

| Identification  | Chemical name/Classification   | Concentration        |
|---|--|----------------------|
| CAS: 64742-95-6<br>EC: 265-199-0<br>Index: 649-356-00-4<br>REACH: 01-2119486773-24-XXXX     | <b>Solvent naphtha (petroleum), light arom., &lt; 0.1 % EC 200-753-7</b> <input type="checkbox"/> <input type="checkbox"/> ATP ATP01<br>Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H336; EUH066 - Danger                             | <b>10 - &lt;25 %</b> |
| CAS: 1330-20-7<br>EC: 215-535-7<br>Index: 601-022-00-9<br>REACH: 01-2119488216-32-XXXX      | <b>Xylene</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning   | <b>1 - &lt;10 %</b>  |
| CAS: 1330-20-7<br>EC: 215-535-7<br>Index: 601-022-00-9<br>REACH: 01-2119488216-32-XXXX      | <b>Xylene</b> <input type="checkbox"/> <input type="checkbox"/> Self-classified<br>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   | <b>1 - &lt;10 %</b>  |
| CAS: 7779-90-0<br>EC: 231-944-3<br>Index: Non-applicable<br>REACH: 01-2119485044-40-XXXX    | <b>trizinc bis(orthophosphate)</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning  | <b>1 - &lt;10 %</b>  |
| CAS: 100-41-4<br>EC: 202-849-4<br>Index: 601-023-00-4<br>REACH: 01-2119489370-35-XXXX       | <b>Ethylbenzene</b> <input type="checkbox"/> <input type="checkbox"/> Self-classified<br>Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger   | <b>1 - &lt;10 %</b>  |
| CAS: 8050-09-7<br>EC: 232-475-7<br>Index: 650-015-00-7<br>REACH: 01-2119480418-32-XXXX      | <b>Rosin</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Skin Sens. 1: H317 - Warning  | <b>1 - &lt;10 %</b>  |
| CAS: Non-applicable<br>EC: 430-050-2<br>Index: 616-127-00-5<br>REACH: 01-2120789217-43-XXXX | <b>Reaction mass of: N,N-Ethane-1,2-diylbis(decanamide)/12-Hydroxy-N-[2-[1-oxo-decyl]amino]ethyl]octadecanamide/N,N-Ethane-1,2-diylbis(12-hydroxyoctadecanamide)</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Sens. 1: H317 - Warning | <b>0,1 - &lt;1 %</b> |
| CAS: 108-88-3<br>EC: 203-625-9<br>Index: 601-021-00-3<br>REACH: 01-2119471310-51-XXXX       | <b>Toluene</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger   | <b>0,1 - &lt;1 %</b> |
| CAS: 96-29-7<br>EC: 202-496-6<br>Index: 616-014-00-0<br>REACH: 01-2119539477-28-XXXX        | <b>Butanone oxime</b> <input type="checkbox"/> <input type="checkbox"/> ATP CLP00<br>Regulation 1272/2008 Acute Tox. 4: H312; Carc. 2: H351; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger   | <b>0,1 - &lt;1 %</b> |
| CAS: 22464-99-9<br>EC: 245-018-1<br>Index: Non-applicable<br>REACH: 01-2119979088-21-XXXX   | <b>2-ethylhexanoic acid, zirconium salt</b> <input type="checkbox"/> <input type="checkbox"/> Self-classified<br>Regulation 1272/2008 Repr. 2: H361d - Warning   | <b>0,1 - &lt;1 %</b> |

Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830  
  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: 1314-13-2<br>EC: 215-222-5<br>Index: 030-013-00-7<br>REACH: 01-2119463881-32-XXXX        | <b>Zinc oxide</b> <input type="checkbox"/> <sup>1</sup> <input type="checkbox"/>   | ATP CLP00<br>Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning   | <b>0,1 - &lt;1 %</b> |
| CAS: Non-applicable<br>EC: 942-330-6<br>Index: Non-applicable<br>REACH: 01-2120101675-63-XXXX | <b>Reaction products of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine</b> <input type="checkbox"/> <sup>1</sup> <input type="checkbox"/> | Self-classified<br>Regulation 1272/2008 Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1A: H317; STOT RE 2: H373 - Warning                          | <b>0,1 - &lt;1 %</b> |
| CAS: 136-52-7<br>EC: 205-250-6<br>Index: Non-applicable<br>REACH: 01-2119524678-29-XXXX       | <b>Cobalt bis(2-ethylhexanoate)</b> <input type="checkbox"/> <sup>1</sup> <input type="checkbox"/>   | Self-classified<br>Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360; Skin Sens. 1A: H317 - Danger | <b>&lt;0,1 %</b>     |
| CAS: 112-34-5<br>EC: 203-961-6<br>Index: 603-096-00-8<br>REACH: 01-2119475104-44-XXXX         | <b>2-(2-butoxyethoxy)ethanol</b> <input type="checkbox"/> <sup>2</sup> <input type="checkbox"/>  | ATP CLP00<br>Regulation 1272/2008 Eye Irrit. 2: H319 - Warning   | <b>&lt;0,1 %</b>     |

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830  
 <sup>2</sup> Substance with a Union workplace exposure limit

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

\*\* 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 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:**

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). 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.

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**SECTION 5: FIREFIGHTING MEASURES (continued)**

**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:**

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.

**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:**

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 94/9/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     |
| Maximum time:  | 24 Months |

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**SECTION 7: HANDLING AND STORAGE (continued)**

**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

| Identification   | Environmental limits |              |                         |
|--|----------------------|--------------|-------------------------|
|  | IOELV (8h)           | IOELV (STEL) | IOELV (STEL)            |
| Xylene<br>CAS: 1330-20-7 EC: 215-535-7                   | 50 ppm               | 100 ppm      | 221 mg/m <sup>3</sup>   |
|  | 50 ppm               | 100 ppm      | 442 mg/m <sup>3</sup>   |
| Xylene<br>CAS: 1330-20-7 EC: 215-535-7                   | 50 ppm               | 100 ppm      | 221 mg/m <sup>3</sup>   |
|  | 50 ppm               | 100 ppm      | 442 mg/m <sup>3</sup>   |
| Ethylbenzene<br>CAS: 100-41-4 EC: 202-849-4              | 100 ppm              | 200 ppm      | 442 mg/m <sup>3</sup>   |
|  | 100 ppm              | 200 ppm      | 884 mg/m <sup>3</sup>   |
| Toluene<br>CAS: 108-88-3 EC: 203-625-9                   | 50 ppm               | 100 ppm      | 192 mg/m <sup>3</sup>   |
|  | 50 ppm               | 100 ppm      | 384 mg/m <sup>3</sup>   |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5 EC: 203-961-6 | 10 ppm               | 15 ppm       | 67.5 mg/m <sup>3</sup>  |
|  | 10 ppm               | 15 ppm       | 101.2 mg/m <sup>3</sup> |

**DNEL (Workers):**

| Identification   |            | Short exposure        |                       | Long exposure         |                        |
|--|------------|-----------------------|-----------------------|-----------------------|------------------------|
|  |            | Systemic              | Local                 | Systemic              | Local                  |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 180 mg/kg             | Non-applicable         |
|  | Inhalation | 289 mg/m <sup>3</sup> | 289 mg/m <sup>3</sup> | 77 mg/m <sup>3</sup>  | Non-applicable         |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 180 mg/kg             | Non-applicable         |
|  | Inhalation | 289 mg/m <sup>3</sup> | 289 mg/m <sup>3</sup> | 77 mg/m <sup>3</sup>  | Non-applicable         |
| trizinc bis(orthophosphate)<br>CAS: 7779-90-0<br>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 <sup>3</sup>   | Non-applicable         |
| Ethylbenzene<br>CAS: 100-41-4<br>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 <sup>3</sup> | 77 mg/m <sup>3</sup>  | Non-applicable         |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7                                 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 2,131 mg/kg           | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | Non-applicable        | 10 mg/m <sup>3</sup>   |
| Toluene<br>CAS: 108-88-3<br>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 <sup>3</sup> | 384 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup>  |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6                          | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable         |
|  | Dermal     | 2,5 mg/kg             | Non-applicable        | 1,3 mg/kg             | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | 9 mg/m <sup>3</sup>   | 3,33 mg/m <sup>3</sup> |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable         |
|  | Dermal     | Non-applicable        | Non-applicable        | 15,75 mg/kg           | Non-applicable         |
|  | Inhalation | Non-applicable        | Non-applicable        | 5 mg/m <sup>3</sup>   | Non-applicable         |
| Zinc oxide<br>CAS: 1314-13-2<br>EC: 215-222-5                            | 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 <sup>3</sup>   | Non-applicable         |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification   |            | Short exposure |                         | Long exposure          |                          |
|--|------------|----------------|-------------------------|------------------------|--------------------------|
|  |            | Systemic       | Local                   | Systemic               | Local                    |
| Cobalt bis(2-ethylhexanoate)<br>CAS: 136-52-7<br>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 <sup>3</sup> |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6    | Oral       | Non-applicable | Non-applicable          | Non-applicable         | Non-applicable           |
|  | Dermal     | Non-applicable | Non-applicable          | 83 mg/kg               | Non-applicable           |
|  | Inhalation | Non-applicable | 101,2 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup> | 67,5 mg/m <sup>3</sup>   |

**DNEL (General population):**

| Identification   |            | Short exposure        |                        | Long exposure          |                         |
|--|------------|-----------------------|------------------------|------------------------|-------------------------|
|  |            | Systemic              | Local                  | Systemic               | Local                   |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Oral       | Non-applicable        | Non-applicable         | 1,6 mg/kg              | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | 108 mg/kg              | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | 14,8 mg/m <sup>3</sup> | Non-applicable          |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Oral       | Non-applicable        | Non-applicable         | 1,6 mg/kg              | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | 108 mg/kg              | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | 14,8 mg/m <sup>3</sup> | Non-applicable          |
| trizinc bis(orthophosphate)<br>CAS: 7779-90-0<br>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 <sup>3</sup>  | Non-applicable          |
| Ethylbenzene<br>CAS: 100-41-4<br>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 <sup>3</sup>   | Non-applicable          |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7                                 | Oral       | Non-applicable        | Non-applicable         | 1,065 mg/kg            | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | 1,065 mg/kg            | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable          |
| Toluene<br>CAS: 108-88-3<br>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 <sup>3</sup> | 226 mg/m <sup>3</sup>  | 56,5 mg/m <sup>3</sup> | 56,5 mg/m <sup>3</sup>  |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6                          | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable          |
|  | Dermal     | 1,5 mg/kg             | Non-applicable         | 0,78 mg/kg             | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | 2,7 mg/m <sup>3</sup>  | 2 mg/m <sup>3</sup>     |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1 | Oral       | Non-applicable        | Non-applicable         | 7,9 mg/kg              | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | 7,9 mg/kg              | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | 2,5 mg/m <sup>3</sup>  | Non-applicable          |
| Zinc oxide<br>CAS: 1314-13-2<br>EC: 215-222-5                            | 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 <sup>3</sup>  | Non-applicable          |
| Cobalt bis(2-ethylhexanoate)<br>CAS: 136-52-7<br>EC: 205-250-6           | Oral       | Non-applicable        | Non-applicable         | 0,0558 mg/kg           | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable          |
|  | Inhalation | Non-applicable        | Non-applicable         | Non-applicable         | 0,037 mg/m <sup>3</sup> |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6              | Oral       | Non-applicable        | Non-applicable         | 1,25 mg/kg             | Non-applicable          |
|  | Dermal     | Non-applicable        | Non-applicable         | 50 mg/kg               | Non-applicable          |
|  | Inhalation | Non-applicable        | 50,6 mg/m <sup>3</sup> | 40,5 mg/m <sup>3</sup> | 34 mg/m <sup>3</sup>    |

**PNEC:**

| Identification                            |              |                |                         |             |
|---|--------------|----------------|-------------------------|-------------|
| Xylene<br>CAS: 1330-20-7<br>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 |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification   |              |                |                         |                |
|--|--------------|----------------|-------------------------|----------------|
| Xylene<br>CAS: 1330-20-7<br>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    |
| trizinc bis(orthophosphate)<br>CAS: 7779-90-0<br>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     |
| Ethylbenzene<br>CAS: 100-41-4<br>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         | 20 g/kg        | Sediment (Marine water) | 1,37 mg/kg     |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7                                 | STP          | 1000 mg/L      | Fresh water             | 0,002 mg/L     |
|  | Soil         | 0 mg/kg        | Marine water            | 0 mg/L         |
|  | Intermittent | 0,016 mg/L     | Sediment (Fresh water)  | 0,007 mg/kg    |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,001 mg/kg    |
| Toluene<br>CAS: 108-88-3<br>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    |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6                          | STP          | 177 mg/L       | Fresh water             | 0,256 mg/L     |
|  | Soil         | Non-applicable | Marine water            | Non-applicable |
|  | Intermittent | 0,118 mg/L     | Sediment (Fresh water)  | Non-applicable |
|  | Oral         | Non-applicable | Sediment (Marine water) | Non-applicable |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1 | STP          | 71,7 mg/L      | Fresh water             | 0,36 mg/L      |
|  | Soil         | 1,06 mg/kg     | Marine water            | 0,036 mg/L     |
|  | Intermittent | 0,493 mg/L     | Sediment (Fresh water)  | 6,37 mg/kg     |
|  | Oral         | Non-applicable | Sediment (Marine water) | 0,637 mg/kg    |
| Zinc oxide<br>CAS: 1314-13-2<br>EC: 215-222-5                            | 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     |
| Cobalt bis(2-ethylhexanoate)<br>CAS: 136-52-7<br>EC: 205-250-6           | STP          | 0,37 mg/L      | Fresh water             | 0,00051 mg/L   |
|  | Soil         | 7,9 mg/kg      | Marine water            | 0,00236 mg/L   |
|  | Intermittent | Non-applicable | Sediment (Fresh water)  | 9,5 mg/kg      |
|  | Oral         | Non-applicable | Sediment (Marine water) | 9,5 mg/kg      |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6              | STP          | 200 mg/L       | Fresh water             | 1 mg/L         |
|  | Soil         | 0,32 mg/kg     | Marine water            | 0,1 mg/L       |
|  | Intermittent | 11 mg/L        | Sediment (Fresh water)  | 4 mg/kg        |
|  | Oral         | 56 g/kg        | Sediment (Marine water) | 0,4 mg/kg      |

**8.2 Exposure controls:**

**A.- General security and hygiene measures in the work place**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. 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**



**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Pictogram                                  | PPE  | Labelling   | CEN Standard                               | Remarks   |
|--|--|-------------|--|---|
| <br>Mandatory respiratory tract protection | Filter mask for gases, vapours and particles | <br>CAT III | EN 149:2001+A1:2009<br>EN 405:2001+A1:2009 | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. |

**C.- Specific protection for the hands**

| Pictogram                     | PPE                                   | Labelling | CEN Standard | Remarks   |
|-------------------------------|---------------------------------------|-----------|--------------|---|
| <br>Mandatory hand protection | Protective gloves against minor risks | <br>CAT I |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374. |

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted 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  |
|-------------------------------|---|------------|---------------------------------|--|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | <br>CAT II | EN 166:2001<br>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                                     |
|--|---|-------------|--|---|
| <br>Mandatory complete body protection | Antistatic and fireproof protective clothing                  | <br>CAT III | EN 1149-1:2006<br>EN 1149-2:1997<br>EN 1149-3:2004<br>EN 168:2001<br>EN ISO 14116:2015<br>EN 1149-5:2018 | Limited protection against flames.          |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties | <br>CAT III | EN ISO 13287:2012<br>EN ISO 20345:2011   | Replace boots at any sign of deterioration. |

**F.- Additional emergency measures**

| Emergency measure    | Standards                                       | Emergency measure    | Standards                                      |
|----------------------|---|----------------------|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>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): 31,39 % weight
- V.O.C. density at 20 °C: 455,1 kg/m<sup>3</sup> (455,1 g/L)
- Average carbon number: 8,44
- Average molecular weight: 112,62 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: 455,16 kg/m<sup>3</sup> (455,16 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:**

For complete information see the product datasheet.

**Appearance:**

|                          |                                |
|--------------------------|--------------------------------|
| Physical state at 20 °C: | Liquid                         |
| Appearance:              | Viscous                        |
| Colour:                  | <input type="checkbox"/> White |
| Odour:                   | Characteristic                 |
| Odour threshold:         | Non-applicable *               |

**Volatility:**

|  |                       |
|--|-----------------------|
| Boiling point at atmospheric pressure: | 149 °C                |
| Vapour pressure at 20 °C:              | 560 Pa                |
| Vapour pressure at 50 °C:              | 3048,11 Pa (3,05 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *      |

**Product description:**

|  |                               |
|--|-------------------------------|
| Density at 20 °C:                            | 1400 - 1500 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 1,4 - 1,5                     |
| Dynamic viscosity at 20 °C:                  | 150 - 250 cP                  |
| Kinematic viscosity at 20 °C:                | Non-applicable *              |
| Kinematic viscosity at 40 °C:                | >20,5 cSt                     |
| 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:                       | Insoluble in water            |
| Decomposition temperature:                   | Non-applicable *              |
| Melting point/freezing point:                | Non-applicable *              |
| Explosive properties:                        | Non-applicable *              |
| Oxidising properties:                        | Non-applicable *              |

**Flammability:**

|                            |                  |
|----------------------------|------------------|
| Flash Point:               | 31 °C            |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature:  | 204 °C           |
| Lower flammability limit:  | Not available    |
| Upper flammability limit:  | Not available    |

**Explosive:**

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| 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:**

- CONTINUED ON NEXT PAGE -



**SECTION 10: STABILITY AND REACTIVITY (continued)**

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 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 (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : 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.
- Corrosivity/Irritability: 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.

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

- Contact with the skin: Produces skin inflammation.
- 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):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.  
IARC: Titanium dioxide (2B); Xylene (3); Ethylbenzene (2B); Toluene (3); Xylene (3); Talc (3)
- 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, as it does not contain 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.

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

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

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.

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

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

- Skin: 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.

**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  |
|---|-----------------|----------------------|--------|
|   | Route           | Toxicity             |        |
| Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7<br>CAS: 64742-95-6<br>EC: 265-199-0  | LD50 oral       | 2100 mg/kg           | Rat    |
|   | LD50 dermal     | 2000 mg/kg           | Rabbit |
|   | LC50 inhalation | Non-applicable       |        |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7   | LD50 oral       | 2100 mg/kg           | Rat    |
|   | LD50 dermal     | 1100 mg/kg (ATEi)    | Rat    |
|   | LC50 inhalation | 11 mg/L (4 h) (ATEi) |        |
| Ethylbenzene<br>CAS: 100-41-4<br>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    |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7   | LD50 oral       | 2100 mg/kg           | Rat    |
|   | LD50 dermal     | 1100 mg/kg (ATEi)    | Rat    |
|   | LC50 inhalation | 11 mg/L (4 h) (ATEi) |        |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7  | LD50 oral       | 4100 mg/kg           | Rat    |
|   | LD50 dermal     | Non-applicable       |        |
|   | LC50 inhalation | Non-applicable       |        |
| Reaction mass of: N,N-Ethane-1,2-diylbis(decanamide)/12-Hydroxy-N-[2-[1-oxodecyl) amino]ethyl]octadecanamide/N,N-Ethane-1,2-diylbis(12-hydroxyoctadecanamide)<br>CAS: Non-applicable<br>EC: 430-050-2 | LD50 oral       | 5100 mg/kg           | Rat    |
|   | LD50 dermal     | Non-applicable       |        |
|   | LC50 inhalation | Non-applicable       |        |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9   | LD50 oral       | 5580 mg/kg           | Rat    |
|   | LD50 dermal     | 12124 mg/kg          | Rat    |
|   | LC50 inhalation | 28,1 mg/L (4 h)      | Rat    |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6   | LD50 oral       | 2100 mg/kg           | Rat    |
|   | LD50 dermal     | 1100 mg/kg           | Rat    |
|   | LC50 inhalation | Non-applicable       |        |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1  | LD50 oral       | 2043 mg/kg           | Rat    |
|   | LD50 dermal     | Non-applicable       |        |
|   | LC50 inhalation | Non-applicable       |        |
| Zinc oxide<br>CAS: 1314-13-2<br>EC: 215-222-5   | LD50 oral       | 7950 mg/kg           | Mouse  |
|   | LD50 dermal     | Non-applicable       |        |
|   | LC50 inhalation | Non-applicable       |        |

**Acute Toxicity Estimate (ATE mix):**

| ATE mix |                                    | Ingredient(s) of unknown toxicity |
|---------|------------------------------------|-----------------------------------|
| Oral    | >2000 mg/kg (Calculation method)   | Non-applicable                    |
| Dermal  | 2597,65 mg/kg (Calculation method) | 49,58 %                           |

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

|            |                                       |         |
|------------|---------------------------------------|---------|
| Inhalation | 13,09 mg/L (4 h) (Calculation method) | 82,14 % |
|------------|---------------------------------------|---------|

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**

| Identification   | Acute toxicity |                     | Species                   | Genus      |
|--|----------------|---------------------|---------------------------|------------|
|  | LC50           | EC50                |                           |            |
| Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7<br>CAS: 64742-95-6<br>EC: 265-199-0   | LC50           | 1 - 10 mg/L (96 h)  |                           | Fish       |
|  | EC50           | 1 - 10 mg/L         |                           | Crustacean |
|  | EC50           | 1 - 10 mg/L         |                           | Algae      |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7  | LC50           | 13.5 mg/L (96 h)    | Oncorhynchus mykiss       | Fish       |
|  | EC50           | 3.4 mg/L (48 h)     | Ceriodaphnia dubia        | Crustacean |
|  | EC50           | 10 mg/L (72 h)      | Skeletonema costatum      | Algae      |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7  | LC50           | 13.5 mg/L (96 h)    | Oncorhynchus mykiss       | Fish       |
|  | EC50           | 3.4 mg/L (48 h)     | Ceriodaphnia dubia        | Crustacean |
|  | EC50           | 10 mg/L (72 h)      | Skeletonema costatum      | Algae      |
| trizinc bis(orthophosphate)<br>CAS: 7779-90-0<br>EC: 231-944-3   | LC50           | 0.1 - 1 mg/L (96 h) |                           | Fish       |
|  | EC50           | 0.1 - 1 mg/L        |                           | Crustacean |
|  | EC50           | 0.1 - 1 mg/L        |                           | Algae      |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4   | LC50           | 42.3 mg/L (96 h)    | Pimephales promelas       | Fish       |
|  | EC50           | 75 mg/L (48 h)      | Daphnia magna             | Crustacean |
|  | EC50           | 63 mg/L (3 h)       | Chlorella vulgaris        | Algae      |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7   | LC50           | 150 mg/L (96 h)     | Brachydanio rerio         | Fish       |
|  | EC50           | 238 mg/L (48 h)     | Daphnia magna             | Crustacean |
|  | EC50           | 185 mg/L (72 h)     | Selenastrum capricornutum | Algae      |
| Reaction mass of: N,N-Ethane-1,2-diylbis(decanamide)/12-Hydroxy-N-[2-[1-oxydecyl]amino]ethyl]octadecanamide/N,N-Ethane-1,2-diylbis(12-hydroxyoctadecanamide)<br>CAS: Non-applicable<br>EC: 430-050-2 | LC50           | 1 - 10 mg/L (96 h)  |                           | Fish       |
|  | EC50           | 1 - 10 mg/L         |                           | Crustacean |
|  | EC50           | 1 - 10 mg/L         |                           | Algae      |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9  | LC50           | 13 mg/L (96 h)      | Carassius auratus         | Fish       |
|  | EC50           | 11.5 mg/L (48 h)    | Daphnia magna             | Crustacean |
|  | EC50           | 125 mg/L (48 h)     | Scenedesmus subspicatus   | Algae      |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6  | LC50           | 843 mg/L (96 h)     | Pimephales promelas       | Fish       |
|  | EC50           | 750 mg/L (48 h)     | Daphnia magna             | Crustacean |
|  | EC50           | 83 mg/L (72 h)      | Scenedesmus subspicatus   | Algae      |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1   | LC50           | 270 mg/L (96 h)     | N/A                       | Fish       |
|  | EC50           | Non-applicable      |                           |            |
|  | EC50           | Non-applicable      |                           |            |
| Zinc oxide<br>CAS: 1314-13-2<br>EC: 215-222-5  | LC50           | 0.82 mg/L (96 h)    | Oncorhynchus kisutch      | Fish       |
|  | EC50           | 3.4 mg/L (48 h)     | Daphnia magna             | Crustacean |
|  | EC50           | Non-applicable      |                           |            |
| Cobalt bis(2-ethylhexanoate)<br>CAS: 136-52-7<br>EC: 205-250-6   | LC50           | 0.1 - 1 mg/L (96 h) |                           | Fish       |
|  | EC50           | 0.1 - 1 mg/L        |                           | Crustacean |
|  | EC50           | 0.1 - 1 mg/L        |                           | Algae      |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6  | LC50           | 1300 mg/L (96 h)    | Lepomis macrochirus       | Fish       |
|  | EC50           | 2850 mg/L (24 h)    | Daphnia magna             | Crustacean |
|  | EC50           | 53 mg/L (192 h)     | Microcystis aeruginosa    | Algae      |

**12.2 Persistence and degradability:**

| Identification   | Degradability |             | Biodegradability |                |
|--|---------------|-------------|------------------|----------------|
|  |               |             |                  |                |
| Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7<br>CAS: 64742-95-6<br>EC: 265-199-0 | BOD5          | 0.19 g O2/g | Concentration    | Non-applicable |
|  | COD           | 0.44 g O2/g | Period           | Non-applicable |
|  | BOD5/COD      | 0.43        | % Biodegradable  | Non-applicable |

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification   | Degradability |                | Biodegradability |                |
|--|---------------|----------------|------------------|----------------|
|  |               |                |                  |                |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | BOD5          | Non-applicable | Concentration    | Non-applicable |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 88 %           |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | BOD5          | Non-applicable | Concentration    | Non-applicable |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 88 %           |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4                           | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|  | COD           | Non-applicable | Period           | 14 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 90 %           |
| Rosin<br>CAS: 8050-09-7<br>EC: 232-475-7                                 | BOD5          | Non-applicable | Concentration    | Non-applicable |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 32 %           |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9                                | BOD5          | 2.5 g O2/g     | Concentration    | 100 mg/L       |
|  | COD           | Non-applicable | Period           | 14 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 100 %          |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6                          | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 24 %           |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1 | BOD5          | Non-applicable | Concentration    | 20 mg/L        |
|  | COD           | Non-applicable | Period           | 28 days        |
|  | BOD5/COD      | Non-applicable | % Biodegradable  | 99 %           |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6              | BOD5          | 0.25 g O2/g    | Concentration    | 100 mg/L       |
|  | COD           | 2.08 g O2/g    | Period           | 28 days        |
|  | BOD5/COD      | 0.12           | % Biodegradable  | 92 %           |

**12.3 Bioaccumulative potential:**

| Identification   | Bioaccumulation potential |      |
|--|---------------------------|------|
|  |                           |      |
| Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7<br>CAS: 64742-95-6<br>EC: 265-199-0 | BCF                       |      |
|  | Pow Log                   | 4    |
|  | Potential                 |      |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7  | BCF                       | 9    |
|  | Pow Log                   | 2.77 |
|  | Potential                 | Low  |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7  | BCF                       | 9    |
|  | Pow Log                   | 2.77 |
|  | Potential                 | Low  |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4   | BCF                       | 1    |
|  | Pow Log                   | 3.15 |
|  | Potential                 | Low  |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9  | BCF                       | 13   |
|  | Pow Log                   | 2.73 |
|  | Potential                 | Low  |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6  | BCF                       | 5    |
|  | Pow Log                   | 0.59 |
|  | Potential                 | Low  |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1                           | BCF                       |      |
|  | Pow Log                   | 2.96 |
|  | Potential                 |      |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6  | BCF                       | 0.46 |
|  | Pow Log                   | 0.56 |
|  | Potential                 | Low  |

**12.4 Mobility in soil:**

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification   | Absorption/desorption |                      | Volatility |                                |
|--|-----------------------|----------------------|------------|--------------------------------|
|  | Koc                   | 202                  | Henry      | 524,86 Pa·m <sup>3</sup> /mol  |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Conclusion            | Moderate             | Dry soil   | Yes                            |
|  | Surface tension       | Non-applicable       | Moist soil | Yes                            |
|  | Koc                   | 202                  | Henry      | 524,86 Pa·m <sup>3</sup> /mol  |
| Xylene<br>CAS: 1330-20-7<br>EC: 215-535-7                                | Conclusion            | Moderate             | Dry soil   | Yes                            |
|  | Surface tension       | Non-applicable       | Moist soil | Yes                            |
|  | Koc                   | 520                  | Henry      | 798,44 Pa·m <sup>3</sup> /mol  |
| Ethylbenzene<br>CAS: 100-41-4<br>EC: 202-849-4                           | Conclusion            | Moderate             | Dry soil   | Yes                            |
|  | Surface tension       | 2,859E-2 N/m (25 °C) | Moist soil | Yes                            |
|  | Koc                   | 178                  | Henry      | 672,8 Pa·m <sup>3</sup> /mol   |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9                                | Conclusion            | Moderate             | Dry soil   | Yes                            |
|  | Surface tension       | 2,793E-2 N/m (25 °C) | Moist soil | Yes                            |
|  | Koc                   | 3                    | Henry      | Non-applicable                 |
| Butanone oxime<br>CAS: 96-29-7<br>EC: 202-496-6                          | Conclusion            | Very High            | Dry soil   | Non-applicable                 |
|  | Surface tension       | 2,57E-2 N/m (25 °C)  | Moist soil | Non-applicable                 |
|  | Koc                   | Non-applicable       | Henry      | 2,94E-1 Pa·m <sup>3</sup> /mol |
| 2-ethylhexanoic acid, zirconium salt<br>CAS: 22464-99-9<br>EC: 245-018-1 | Conclusion            | Non-applicable       | Dry soil   | Yes                            |
|  | Surface tension       | Non-applicable       | Moist soil | Yes                            |
|  | Koc                   | 48                   | Henry      | 7,2E-9 Pa·m <sup>3</sup> /mol  |
| 2-(2-butoxyethoxy)ethanol<br>CAS: 112-34-5<br>EC: 203-961-6              | Conclusion            | Very High            | Dry soil   | No                             |
|  | Surface tension       | 3,395E-2 N/m (25 °C) | Moist soil | No                             |

**12.5 Results of PBT and vPvB assessment:**

Product fails to meet PBT/vPvB criteria

**12.6 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):**

HP14 Ecotoxic, HP3 Flammable, 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. 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 2019 and RID 2019:



**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 38-16:



- 14.1 UN 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: 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2019:



- 14.1 UN 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 Transport in bulk according to Annex II of Marpol and the IBC Code:** 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:**

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**SECTION 15: REGULATORY INFORMATION (continued)**

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------|-------------------------|-------------------------|
| P5c     |             | 5000                    | 50000                   |
| E2      |             | 200                     | 500                     |

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

Contains more than 0.1 % of Toluene by weight. Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

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:**

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:**

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 (Regulation (EC) No 2015/830)

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

\*\* Changes with regards to the previous version





**SECTION 16: OTHER INFORMATION \*\* (continued)**

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

- New declared substances  
Reaction products of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine
  - Removed substances  
Fatty acids, tall-oil, compds. with oleylamine (85711-55-3)  
Fatty acids, C18-unsatd., dimers, compds. with oleylamine (1078142-41-2)
- Substances that contribute to the classification (SECTION 2):
- New declared substances  
Reaction products of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine
  - Removed substances  
Rosin (8050-09-7)
- CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):
- Hazard statements
  - Substances contained in EUH208:
    - New declared substances  
Rosin (8050-09-7)
    - Removed substances  
Fatty acids, tall-oil, compds. with oleylamine (85711-55-3)  
Fatty acids, C18-unsatd., dimers, compds. with oleylamine (1078142-41-2)

**Texts of the legislative phrases mentioned in section 2:**

- H315: Causes skin irritation
- H411: Toxic to aquatic life with long lasting effects
- H317: May cause an allergic skin reaction
- H332: Harmful if inhaled
- 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 - Harmful in contact with skin
- 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
- Carc. 2: H351 - Suspected of causing cancer
- 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: H360 - May damage fertility or the unborn child
- Repr. 2: H361d - Suspected of damaging the unborn child.
- Skin Irrit. 2: H315 - Causes skin irritation
- Skin Sens. 1: H317 - May cause an allergic skin reaction
- Skin Sens. 1A: H317 - May cause an allergic skin reaction
- STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure
- 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 SE 3: H335 - May cause respiratory irritation
- STOT SE 3: H336 - May cause drowsiness or dizziness

**Classification procedure:**

- Skin Irrit. 2: Calculation method
- Aquatic Chronic 2: Calculation method
- Skin Sens. 1A: Calculation method
- Acute Tox. 4: Calculation method
- Flam. Liq. 3: Calculation method (2.6.4.3)

**Advice related to training:**

\*\* Changes with regards to the previous version



**SECTION 16: OTHER INFORMATION \*\* (continued)**

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: 5-day biochemical oxygen demand  
 BCF: Bioconcentration factor  
 LD50: Lethal Dose 50  
 LC50: Lethal Concentration 50  
 EC50: Effective concentration 50  
 Log-POW: Octanol-water partition coefficient  
 Koc: Partition coefficient of organic carbon

*\*\* 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 -