

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision Number: 1

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

### 1.1. Product identifier

**Product Name:** Kluthe Rostosan Plus

Article number: 011210337001

UFI: CF0H-K9AV-G11K-799W

Hazard components for labeling: Contains hydrocarbons, C9, aromats, xylene (reaction product of xylene and ethylbenzene)

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

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners

Sector of uses [SU]: SU19 - Building and construction work

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

Supplier: conti coatings GmbH & Co. KG  
Feldstrasse 55  
D - 46149 Oberhausen  
Telefon: +49 208/ 9948-0  
Telefax: +49 208/ 650625  
www.conticoatings.com

E-mail address: sds.ob@conticoatings.com

### 1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

|  |  |
|--|--|
| <b>Emergency Telephone - §45 - (EC)1272/2008</b> |  |
| <b>Europe</b>                                    | 112  |
| <b>Austria</b>                                   | +43 1 406 43 43 (Giftinformationszentrale) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|   |                          |
|---|--------------------------|
| <b>Flammable liquids</b>                                | Category 3 - (H226)      |
| <b>Specific target organ toxicity (single exposure)</b> | Category 3 - (H335,H336) |
| <b>Chronic aquatic toxicity</b>                         | Category 2 - (H411)      |

### 2.2. Label elements



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**Signal word: Warning**

**Hazard components for labeling:**

Contains hydrocarbons, C9, aromats, xylene (reaction product of xylene and ethylbenzene)

**Hazard statements:**

H226 - Flammable liquid and vapor.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH208 - Contains Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1) May produce an allergic reaction.

**Precautionary Statements - EU (§28, 1272/2008):**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

## 2.3. Other hazards

Causes mild skin irritation. Toxic to aquatic life.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name  | CAS No     | EC No     | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Weight-%  |
|--|------------|-----------|---------------------------|---|-----------|
| hydrocarbons, C9, aromats                            | -          | 918-668-5 | 01-2119455851-35          | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 (H304)<br>STOT SE 3 (H335)<br>STOT SE 3 (H336)<br>Aquatic Chronic 2 (H411)<br>(EUH066)                                   | 10 - < 25 |
| Titanium dioxide                                     | 13463-67-7 | 236-675-5 | 01-2119489379-17          |   | 5 - < 10  |
| xylene (reaction product of xylene and ethylbenzene) | -          | 905-588-0 | 01-2119539452-40          | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2A (H319)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335) | 5 - < 10  |

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|  |            |                        |                  | STOT RE 2 (H373)   |                 |
|--|------------|------------------------|------------------|--|-----------------|
| Phosphoric acid, zinc salt (2:3)               | 7779-90-0  | 231-944-3              | 01-2119485044-40 | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | 3 - < 5         |
| Zinc oxide (ZnO)                               | 1314-13-2  | 215-222-5              | 01-2119463881-32 | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | 1 - < 3         |
| Triphosphoric acid, aluminum salt (1:1)        | 13939-25-8 | 237-714-9              | -                | Eye Irrit. 2 (H319)  | 1 - < 3         |
| Carbon black                                   | 1333-86-4  | 215-609-9<br>435-640-3 | 01-2119441305-48 | [I]  | 0.25 - < 0.5    |
| Isobutyl alcohol                               | 78-83-1    | 201-148-0              | 01-2119484609-23 | Flam. Liq. 3 (H226)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>STOT SE 3 (H335)<br>STOT SE 3 (H336)             | 0.1 - < 0.25    |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1) | 136-52-7   | 205-250-6              | 01-2119524678-29 | Skin Sens. 1A (H317)<br>Eye Irrit. 2 (H319)<br>Repr. 1B (H360)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 3 (H412) | 0.05 - < 0.1    |
| Dipropylene glycol monomethyl ether            | 34590-94-8 | 252-104-2              | 01-2119450011-60 | [B]  | 0.01 - < 0.05   |
| Quartz   | 14808-60-7 | 238-878-4              | -                | [B]  | 0.001 - < 0.005 |

[B] - Substance with a Community workplace exposure limit

## Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name  | Oral LD50 | Dermal LD50       | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------|-------------------|---|---|--------------------------------------|
| hydrocarbons, C9, aromats<br>-                             | 3592      | 3200              | No data available                           | No data available                       | No data available                    |
| Titanium dioxide<br>13463-67-7                             | 10010     | No data available | 7   | No data available                       | No data available                    |
| xylene (reaction product of xylene and ethylbenzene)<br>-  | 3523      | 12126             | 1.5   | 27.1                                    | No data available                    |
| Phosphoric acid, zinc salt (2:3)<br>7779-90-0              | 5005      | No data available | No data available                           | No data available                       | No data available                    |
| Zinc oxide (ZnO)<br>1314-13-2                              | 5005      | No data available | 5.8   | No data available                       | No data available                    |
| Carbon black<br>1333-86-4                                  | 15415.4   | 3003              | No data available                           | No data available                       | No data available                    |
| Isobutyl alcohol<br>78-83-1                                | 2460      | 3400              | 6.5065                                      | No data available                       | No data available                    |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | 5005      | 5005              | 11  | No data available                       | No data available                    |
| Dipropylene glycol monomethyl ether                        | 5350      | 9500              | 21  | No data available                       | No data available                    |

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|            |  |  |  |  |  |
|------------|--|--|--|--|--|
| 34590-94-8 |  |  |  |  |  |
|------------|--|--|--|--|--|

## hazardous components above-mentioned substances/ substance mixtures:

| Chemical name                             | CAS No    | EC No     | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP]                           | Weight-% |
|---|-----------|-----------|---------------------------|---|----------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | 1330-20-7 | 215-535-7 | 01-2119488216-32          | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H312)<br>Skin Irrit. 2 (H315)<br>Acute Tox. 4 (H332) | 5 - < 10 |
| Ethylbenzene<br>100-41-4                  | 100-41-4  | 202-849-4 | 01-2119489370-35          | Flam. Liq. 2 (H225)<br>Asp. Tox. 1 (H304)<br>Acute Tox. 4 (H332)<br>STOT RE 2 (H373)      | 1 - < 3  |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                     |   |
|-------------------------------------|---|
| General advice:                     | Show this safety data sheet to the doctor in attendance.  |
| Inhalation:                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention.   |
| Eye contact:                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.  |
| Skin contact:                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.   |
| Ingestion:                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.   |
| Self-protection of the first aider: | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. |

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

|           |  |
|-----------|--|
| Symptoms: | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation. |
|-----------|--|

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

|                     |                        |
|---------------------|------------------------|
| Note to physicians: | Treat symptomatically. |
|---------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                               |   |
|-------------------------------|---|
| Suitable Extinguishing Media: | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. |
|-------------------------------|---|

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Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

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## 7.1. Precautions for safe handling



Advice on safe handling:

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations:

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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

Storage Conditions:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

## 7.3. Specific end use(s)

Other information:

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure Limits:

| Chemical name                  | European Union | Germany  | Netherlands | Spain  | United Kingdom  | Hungary  |
|--------------------------------|----------------|--|-------------|--|---|--|
| hydrocarbons, C9, aromats<br>- |                | RCP: C9-14 aromates:<br>STEL: 50 mg/m <sup>3</sup> - 2(II) |             |  |   |  |
| Titanium dioxide<br>13463-67-7 |                |  |             | TWA: 10 mg/m <sup>3</sup>                              | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> |  |
| Zinc oxide (ZnO)<br>1314-13-2  |                |  |             | TWA: 2 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup> |   | TWA: 5 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup> |
| Carbon black<br>1333-86-4      |                |  |             | TWA: 3.5 mg/m <sup>3</sup>                             | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>   |  |
| Isobutyl alcohol<br>78-83-1    |                | TWA: 100 ppm<br>TWA: 310 mg/m <sup>3</sup>                 |             | TWA: 50 ppm<br>TWA: 154 mg/m <sup>3</sup>              | TWA: 50 ppm<br>TWA: 154 mg/m <sup>3</sup><br>STEL: 75 ppm<br>STEL: 231 mg/m <sup>3</sup>                          |  |

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| Chemical name  | European Union                                 | Germany                                   | Netherlands                  | Spain   | United Kingdom   | Hungary                     |
|--|--|---|------------------------------|---|--|-----------------------------|
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 |  |   |                              |   | TWA: 0.1 mg/m <sup>3</sup>   |                             |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>* | TWA: 50 ppm<br>TWA: 310 mg/m <sup>3</sup> | TWA: 300 mg/m <sup>3</sup>   | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>vía dérmica* | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 924 mg/m <sup>3</sup><br>Sk* | TWA: 308 mg/m <sup>3</sup>  |
| Quartz<br>14808-60-7                                       | TWA: 0.1 mg/m <sup>3</sup>                     |   | TWA: 0.075 mg/m <sup>3</sup> | TWA: 0.05 mg/m <sup>3</sup>                               | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.15 mg/m <sup>3</sup> |

| Chemical name                            | European Union  | Germany  | Netherlands   | Spain  | United Kingdom  | Hungary   |
|--|---|--|---|--|---|---|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>*  | TWA: 100 ppm<br>TWA: 440 mg/m <sup>3</sup><br>H* | TWA: 210 mg/m <sup>3</sup><br>STEL: 442 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>vía dérmica*  | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 441 mg/m <sup>3</sup><br>Sk*  | TWA: 221 mg/m <sup>3</sup><br>STEL: 442 mg/m <sup>3</sup><br>b* |
| Ethylbenzene<br>100-41-4                 | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>* | TWA: 20 ppm<br>TWA: 88 mg/m <sup>3</sup><br>H*   | TWA: 215 mg/m <sup>3</sup><br>STEL: 430 mg/m <sup>3</sup><br>H* | TWA: 100 ppm<br>TWA: 441 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>vía dérmica* | TWA: 100 ppm<br>TWA: 441 mg/m <sup>3</sup><br>STEL: 125 ppm<br>STEL: 552 mg/m <sup>3</sup><br>Sk* | TWA: 442 mg/m <sup>3</sup><br>STEL: 884 mg/m <sup>3</sup><br>b* |

| Chemical name  | France  | Italy   | Portugal   | Finland   | Denmark  | Czech Republic   |
|--|---|---|--|---|--|--|
| Titanium dioxide<br>13463-67-7                             | TWA: 10 mg/m <sup>3</sup>                             |   | TWA: 10 mg/m <sup>3</sup>  |   | TWA: 6 mg/m <sup>3</sup>                                 |  |
| Zinc oxide (ZnO)<br>1314-13-2                              | TWA: 5 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup> |   | TWA: 2 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>           | TWA: 2 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>  | TWA: 4 mg/m <sup>3</sup>                                 | TWA: 2 mg/m <sup>3</sup><br>Ceiling: 5 mg/m <sup>3</sup>           |
| Carbon black<br>1333-86-4                                  | TWA: 3.5 mg/m <sup>3</sup>                            |   | TWA: 3.5 mg/m <sup>3</sup>                                       | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup> | TWA: 3.5 mg/m <sup>3</sup>                               | TWA: 2.0 mg/m <sup>3</sup>   |
| Isobutyl alcohol<br>78-83-1                                | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup>             |   | TWA: 50 ppm  |   | Ceiling: 50 ppm<br>Ceiling: 150 mg/m <sup>3</sup><br>H*  | TWA: 300 mg/m <sup>3</sup><br>Ceiling: 600 mg/m <sup>3</sup><br>D* |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 |   |   |  |   |  | TWA: 0.05 mg/m <sup>3</sup><br>Ceiling: 0.1 mg/m <sup>3</sup>      |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>*        | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>pelle* | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>STEL: 150 ppm<br>P* | TWA: 50 ppm<br>TWA: 310 mg/m <sup>3</sup><br>iho*       | TWA: 50 ppm<br>TWA: 309 mg/m <sup>3</sup><br>H*          | TWA: 270 mg/m <sup>3</sup><br>Ceiling: 550 mg/m <sup>3</sup><br>D* |
| Quartz<br>14808-60-7                                       | TWA: 0.1 mg/m <sup>3</sup>                            |   | TWA: 0.025 mg/m <sup>3</sup>                                     | TWA: 0.05 mg/m <sup>3</sup>                             | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup>   |

| Chemical name                            | France  | Italy  | Portugal   | Finland   | Denmark   | Czech Republic |
|--|---|--|--|---|---|----------------|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>*  | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>pelle*  | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>P*  | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 440 mg/m <sup>3</sup><br>iho* | TWA: 25 ppm<br>TWA: 109 mg/m <sup>3</sup><br>H* |                |
| Ethylbenzene<br>100-41-4                 | TWA: 20 ppm<br>TWA: 88.4 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>* | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>pelle* | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>P* | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 880 mg/m <sup>3</sup><br>iho* | TWA: 50 ppm<br>TWA: 217 mg/m <sup>3</sup><br>H* |                |

| Chemical name                  | Austria   | Switzerland              | Poland  | Norway   | Ireland   | Russia                    |
|--------------------------------|---|--------------------------|---|--|---|---------------------------|
| Titanium dioxide<br>13463-67-7 | TWA: 5 mg/m <sup>3</sup><br>STEL 10 mg/m <sup>3</sup> | TWA: 3 mg/m <sup>3</sup> | STEL: 30 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> |

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| Chemical name  | Austria   | Switzerland  | Poland  | Norway   | Ireland  | Russia  |
|--|---|--|---|--|--|---|
|  |   |  |   |  | STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup>   |   |
| Zinc oxide (ZnO)<br>1314-13-2                              | TWA: 5 mg/m <sup>3</sup>  | TWA: 3 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>                                    | STEL: 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>    | TWA: 5 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup><br>STEL: 10 mg/m <sup>3</sup>   | TWA: 0.5 mg/m <sup>3</sup><br>STEL: 1.5 mg/m <sup>3</sup> |
| Carbon black<br>1333-86-4                                  |   |  | TWA: 4 mg/m <sup>3</sup>                                  | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>  | TWA: 3 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>   |   |
| Isobutyl alcohol<br>78-83-1                                | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup><br>STEL 200 ppm<br>STEL 600 mg/m <sup>3</sup>       | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 150 mg/m <sup>3</sup> | STEL: 200 mg/m <sup>3</sup><br>TWA: 100 mg/m <sup>3</sup> | Ceiling: 25 ppm<br>Ceiling: 75 mg/m <sup>3</sup><br>H*   | TWA: 150 mg/m <sup>3</sup><br>TWA: 50 ppm<br>STEL: 225 mg/m <sup>3</sup><br>STEL: 75 ppm         | MAC: 10 mg/m <sup>3</sup>                                 |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | H*  | TWA: 0.05 mg/m <sup>3</sup><br>H*  |   | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.06 mg/m <sup>3</sup>  | TWA: 0.02 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup>                                       |   |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | TWA: 50 ppm<br>TWA: 307 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 614 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 300 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 300 mg/m <sup>3</sup> | STEL: 480 mg/m <sup>3</sup><br>TWA: 240 mg/m <sup>3</sup> | TWA: 50 ppm<br>TWA: 300 mg/m <sup>3</sup><br>STEL: 75 ppm<br>STEL: 375 mg/m <sup>3</sup><br>H*                         | TWA: 50 ppm<br>TWA: 308 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 924 mg/m <sup>3</sup><br>Sk* |   |
| Quartz<br>14808-60-7                                       | TWA: 0.15 mg/m <sup>3</sup>   | TWA: 0.15 mg/m <sup>3</sup>  | TWA: 0.1 mg/m <sup>3</sup>                                | TWA: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.9 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>     |

| Chemical name                            | Austria  | Switzerland  | Poland  | Norway   | Ireland   | Russia   |
|--|--|--|---|--|---|--|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 442 mg/m <sup>3</sup>        | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 870 mg/m <sup>3</sup><br>H* | STEL: 200 mg/m <sup>3</sup><br>TWA: 100 mg/m <sup>3</sup> | TWA: 25 ppm<br>TWA: 108 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 135 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>Sk*  | TWA: 50 mg/m <sup>3</sup><br>STEL: 150 mg/m <sup>3</sup> |
| Ethylbenzene<br>100-41-4                 | TWA: 100 ppm<br>TWA: 440 mg/m <sup>3</sup><br>STEL 200 ppm<br>STEL 880 mg/m <sup>3</sup><br>H* | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 220 mg/m <sup>3</sup><br>H*   | STEL: 400 mg/m <sup>3</sup><br>TWA: 200 mg/m <sup>3</sup> | TWA: 5 ppm<br>TWA: 20 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 30 mg/m <sup>3</sup><br>H*      | TWA: 100 ppm<br>TWA: 442 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 884 mg/m <sup>3</sup><br>Sk* | TWA: 50 mg/m <sup>3</sup><br>STEL: 150 mg/m <sup>3</sup> |

Biological occupational exposure limits:

| Chemical name                            | European Union | Germany  | Netherlands | Spain   | United Kingdom  | Hungary |
|--|----------------|--|-------------|---|---|---------|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 |                | 2000 mg/L - urine (Methylhippuric(tolur-)acid (all isomers)) - end of shift          |             | 1 g/g Creatinine - urine (Methylhippuric acids) - end of shift                          | 650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift |         |
| Ethylbenzene<br>100-41-4                 |                | 250 mg/g Creatinine - urine (Mandelic acid plus Phenylglyoxylic acid) - end of shift |             | 700 mg/g Creatinine - urine (Mandelic acid plus Phenylglyoxylic acid) - end of workweek |   |         |

| Chemical name                            | France  | Italy | Portugal | Finland  | Denmark | Czech Republic |
|--|---|-------|----------|--|---------|----------------|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 | 1500 mg/g creatinine - urine (Methylhippuric acid) - end of shift |       |          | 5.0 mmol/L - urine (Methylhippuric acid) - after the shift |         |                |
| Ethylbenzene<br>100-41-4                 | 1500 mg/g creatinine - urine                                      |       |          | 5.2 mmol/L - urine (Mandelic acid) -                       |         |                |



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| Chemical name | France  | Italy | Portugal | Finland   | Denmark | Czech Republic |
|---------------|---|-------|----------|---|---------|----------------|
|               | (Mandelic acid) - end of shift at end of workweek |       |          | after the shift after a working week or exposure period |         |                |

| Chemical name  | Austria   | Switzerland | Poland | Norway | Ireland | Russia |
|--|---|-------------|--------|--------|---------|--------|
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | 10 µg/L - urine (spontaneous urine) - after end of work day, at the end of a work week/end of the shift<br>- () - |             | -      | -      | -       |        |

| Chemical name                            | Austria   | Switzerland   | Poland | Norway | Ireland   | Russia |
|--|---|---|--------|--------|---|--------|
| Xylenes (o-, m-, p-isomers)<br>1330-20-7 | 1.5 g/L - urine (Methylhippuric acid) - after end of work day, at the end of a work week/end of the shift | 2 g/L - urine (Methylhippuric acid) - end of shift                                  |        |        | 1.5 g/g Creatinine - urine (Methylhippuric acids) - end of shift  |        |
| Ethylbenzene<br>100-41-4                 |   | 600 mg/g creatinine - urine (Mandelic acid and Phenylglyoxylic acid) - end of shift |        |        | 0.7 g/g Creatinine - urine (sum of Mandelic acid and Phenylglyoxylic acid) - end of shift at end of workweek<br>0.7 g - end-exhaled air () - not critical |        |

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

| Chemical name  | long term, systemic      | short term, systemic  | long term, local         | short term, local     |
|--|--------------------------|-----------------------|--------------------------|-----------------------|
| hydrocarbons, C9, aromats                            | 150 mg/m <sup>3</sup>    |                       |                          |                       |
| xylene (reaction product of xylene and ethylbenzene) | 221 mg/m <sup>3</sup>    | 442 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup>    | 442 mg/m <sup>3</sup> |
| Phosphoric acid, zinc salt (2:3)                     | 5 mg/m <sup>3</sup>      |                       |                          |                       |
| Zinc oxide (ZnO)                                     | 5 mg/m <sup>3</sup>      |                       | 0.5 mg/m <sup>3</sup>    |                       |
| Isobutyl alcohol                                     | 310 mg/m <sup>3</sup>    |                       | 310 mg/m <sup>3</sup>    |                       |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)       | 0.2351 mg/m <sup>3</sup> |                       | 0.2351 mg/m <sup>3</sup> |                       |
| Dipropylene glycol monomethyl ether                  | 308 mg/m <sup>3</sup>    |                       |                          |                       |

| Chemical name                | short term, local     | short term, systemic  | long term, local      | long term, systemic   |
|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Xylenes (o-, m-, p- isomers) | 442 mg/m <sup>3</sup> | 442 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> |
| Ethylbenzene                 | 293 mg/m <sup>3</sup> |                       |                       | 77 mg/m <sup>3</sup>  |

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Worker - dermal:

| Chemical name  | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats                            | 25 mg/kg bw/day     |                      |                  |                   |
| xylene (reaction product of xylene and ethylbenzene) | 212 mg/kg bw/day    |                      |                  |                   |
| Phosphoric acid, zinc salt (2:3)                     | 83 mg/kg bw/day     |                      |                  |                   |
| Zinc oxide (ZnO)                                     | 83 mg/kg bw/day     |                      |                  |                   |
| Dipropylene glycol monomethyl ether                  | 283 mg/kg bw/day    |                      |                  |                   |

| Chemical name | short term, local | short term, systemic | long term, local | long term, systemic |
|---------------|-------------------|----------------------|------------------|---------------------|
| Ethylbenzene  |                   |                      |                  | 180 mg/kg bw/day    |

Consumer - inhalative:

| Chemical name  | long term, systemic    | short term, systemic  | long term, local        | short term, local     |
|--|------------------------|-----------------------|-------------------------|-----------------------|
| hydrocarbons, C9, aromats                            | 32 mg/m <sup>3</sup>   |                       |                         |                       |
| xylene (reaction product of xylene and ethylbenzene) | 65.3 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 65.3 mg/m <sup>3</sup>  | 260 mg/m <sup>3</sup> |
| Phosphoric acid, zinc salt (2:3)                     | 2.5 mg/m <sup>3</sup>  |                       |                         |                       |
| Zinc oxide (ZnO)                                     | 2.5 mg/m <sup>3</sup>  |                       |                         |                       |
| Isobutyl alcohol                                     |                        |                       | 55 mg/m <sup>3</sup>    |                       |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)       |                        |                       | 0.037 mg/m <sup>3</sup> |                       |
| Dipropylene glycol monomethyl ether                  | 37.2 mg/m <sup>3</sup> |                       |                         |                       |

| Chemical name                | short term, local     | short term, systemic  | long term, local       | long term, systemic    |
|------------------------------|-----------------------|-----------------------|------------------------|------------------------|
| Xylenes (o-, m-, p- isomers) | 260 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 65.3 mg/m <sup>3</sup> | 65.3 mg/m <sup>3</sup> |
| Ethylbenzene                 |                       |                       |                        | 15 mg/m <sup>3</sup>   |

Consumer - dermal:

| Chemical name  | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats                            | 11 mg/kg bw/day     |                      |                  |                   |
| xylene (reaction product of xylene and ethylbenzene) | 125 mg/kg bw/day    |                      |                  |                   |
| Phosphoric acid, zinc salt (2:3)                     | 83 mg/kg bw/day     |                      |                  |                   |
| Zinc oxide (ZnO)                                     | 83 mg/kg bw/day     |                      |                  |                   |
| Dipropylene glycol monomethyl ether                  | 121 mg/kg bw/day    |                      |                  |                   |

| Chemical name                | short term, local | short term, systemic | long term, local | long term, systemic |
|------------------------------|-------------------|----------------------|------------------|---------------------|
| Xylenes (o-, m-, p- isomers) |                   |                      |                  | 125 mg/kg bw/day    |

consumer - oral:

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| Chemical name  | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| hydrocarbons, C9, aromats                            | 11 mg/kg bw/day     |                      |                  |                   |
| xylene (reaction product of xylene and ethylbenzene) | 12.5 mg/kg bw/day   |                      |                  |                   |
| Phosphoric acid, zinc salt (2:3)                     | 0.83 mg/kg bw/day   |                      |                  |                   |
| Zinc oxide (ZnO)                                     | 0.83 mg/kg bw/day   |                      |                  |                   |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)       | 0.0558 mg/kg bw/day |                      |                  |                   |
| Dipropylene glycol monomethyl ether                  | 36 mg/kg bw/day     |                      |                  |                   |

| Chemical name                | short term, local | short term, systemic | long term, local | long term, systemic |
|------------------------------|-------------------|----------------------|------------------|---------------------|
| Xylenes (o-, m-, p- isomers) |                   |                      |                  | 12.5 mg/kg bw/day   |
| Ethylbenzene                 |                   |                      |                  | 1.6 mg/kg bw/day    |

Predicted No Effect Concentration (PNEC):

component information:

| Chemical name              | xylene (reaction product of xylene and ethylbenzene) |
|----------------------------|--|
| Freshwater                 | 0.327 mg/L   |
| Marine water               | 0.327 mg/L   |
| Intermittent release       | 0.327 mg/L   |
| Impact on Sewage Treatment | 6.58 mg/L  |
| Freshwater sediment        | 12.46 mg/kg  |
| Marine sediment            | 12.46 mg/kg  |
| Soil                       | 2.31 mg/kg   |

| Chemical name       | Phosphoric acid, zinc salt (2:3) |
|---------------------|----------------------------------|
| Freshwater          | 0.026 mg/L                       |
| Marine water        | 0.006 mg/L                       |
| Freshwater sediment | 117.8 mg/kg dry weight           |
| Marine sediment     | 56.5 mg/kg dry weight            |
| Soil                | 35.6 mg/kg dry weight            |

| Chemical name       | Zinc oxide (ZnO)       |
|---------------------|------------------------|
| Freshwater          | 20.6 µg/L              |
| Marine water        | 6.1 µg/L               |
| Freshwater sediment | 117.8 mg/kg dry weight |
| Marine sediment     | 56.5 mg/kg dry weight  |

| Chemical name              | Isobutyl alcohol        |
|----------------------------|-------------------------|
| Freshwater                 | 0.4 mg/L                |
| Marine water               | 0.04 mg/L               |
| Intermittent release       | 11 mg/L                 |
| Impact on Sewage Treatment | 10 mg/L                 |
| Freshwater sediment        | 1.56 mg/kg dry weight   |
| Marine sediment            | 0.156 mg/kg dry weight  |
| Soil                       | 0.0576 mg/kg dry weight |

| Chemical name | Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1) |
|---------------|--|
|---------------|--|

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|                     |              |
|---------------------|--------------|
| Freshwater          | 0.00051 mg/L |
| Marine water        | 0.00236 mg/L |
| Freshwater sediment | 9.5 mg/kg    |
| Marine sediment     | 9.5 mg/kg    |
| Soil                | 7.9 mg/kg    |

| Chemical name              | Dipropylene glycol monomethyl ether |
|----------------------------|-------------------------------------|
| Freshwater                 | 19 mg/L                             |
| Marine water               | 1.9 mg/L                            |
| Intermittent release       | 190 mg/L                            |
| Impact on Sewage Treatment | 4168 mg/L                           |
| Freshwater sediment        | 70.2 mg/kg                          |
| Marine sediment            | 7.02 mg/kg                          |
| Soil                       | 2.74 mg/kg                          |

|                            |                              |
|----------------------------|------------------------------|
| Chemical name              | Xylenes (o-, m-, p- isomers) |
| Marine water               | 0.327 mg/L                   |
| Intermittent release       | 0.327 mg/L                   |
| Impact on Sewage Treatment | 6.58 mg/L                    |
| Freshwater sediment        | 12.46 mg/kg                  |
| Marine sediment            | 12.46 mg/kg                  |
| Soil                       | 2.31 mg/kg                   |

|                            |                       |
|----------------------------|-----------------------|
| Chemical name              | Ethylbenzene          |
| Freshwater                 | 0.1 mg/L              |
| Marine water               | 0.01 - 0.1 mg/L       |
| Intermittent release       | 0.1 mg/L              |
| Impact on Sewage Treatment | 9.6 mg/L              |
| Freshwater sediment        | 13.7 mg/kg            |
| Marine sediment            | 1.37 mg/kg            |
| Soil                       | 2.68 mg/kg dry weight |
| Food chain                 | 20 mg/kg dry weight   |

## 8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment:



Eye/face protection: Tight sealing safety goggles.

Hand protection: Wear suitable gloves. Impervious gloves.

| PPE - Glove material | Glove thickness | Break through time |
|----------------------|-----------------|--------------------|
| NBR (Nitrile rubber) | 0.4 mm          | >=480 min.         |

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are

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exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec AP-2

Environmental exposure controls: No information available.

## SECTION 9: Physical and chemical properties

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

|                               |         |       |                   |                   |               |                   |
|-------------------------------|---------|-------|-------------------|-------------------|---------------|-------------------|
| Appearance                    | Liquid  |       |                   |                   |               |                   |
| Color                         | gray    |       |                   |                   |               |                   |
| Odor                          | Solvent |       |                   |                   |               |                   |
| Melting point / melting range |         |       |                   | <i>Conditions</i> | <i>Method</i> | <i>Remarks</i>    |
|                               |         |       |                   |                   |               | Not established   |
| Boiling point / boiling range | >       | 100   | °C                |                   |               |                   |
| Flammability                  |         |       |                   |                   |               | Not established   |
| Decomposition temperature     |         |       |                   |                   |               | not relevant      |
| Flash point                   | >       | 24    | °C                |                   |               |                   |
| Autoignition temperature      |         |       |                   |                   |               | None known        |
| Lower explosive limit         |         |       |                   |                   |               | not relevant      |
| Upper explosion limit         |         |       |                   |                   |               | not relevant      |
| Vapor pressure                | >       | 1100  | hPa               | 50 °C             |               |                   |
| Density                       | ~       | 1.380 | g/cm <sup>3</sup> | 20 °C             |               |                   |
| Water solubility              |         |       |                   |                   |               | Immiscible        |
| pH                            |         |       |                   |                   |               | Not applicable    |
| pH (as aqueous solution)      |         |       |                   |                   |               | Not applicable    |
| Partition coefficient         |         |       |                   |                   |               | Not established   |
| Kinematic viscosity           |         |       |                   |                   |               | Not applicable    |
| Odor threshold                |         |       |                   |                   |               | Not established   |
| Relative density              |         |       |                   |                   |               | Not established   |
| Evaporation rate              |         |       |                   |                   |               | Not established   |
| Relative vapor density        |         |       |                   |                   |               | no data available |
| Particle Size                 |         |       |                   |                   |               | no data available |
| Particle Size Distribution    |         |       |                   |                   |               | no data available |

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## 9.2. Other information

**Bulk density:** no data available  
**Softening point** No information available  
**Molecular weight** No information available

### 9.2.1. Information with regard to physical hazard classes:

Explosive properties Not an explosive  
Oxidizing properties Not oxidising.

**9.2.2. Other safety characteristics:** No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: No information available.

### 10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.  
Sensitivity to static discharge: Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

### 10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

Inhalation: May cause drowsiness or dizziness. Specific test data for the substance or mixture is not

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available. May cause irritation of respiratory tract.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available. Causes mild skin irritation.

Ingestion: Specific test data for the substance or mixture is not available.

## Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation.

## Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal): 13,251.20 mg/kg  
ATEmix (inhalation-dust/mist): 16.60 mg/l  
ATEmix (inhalation-vapor): 132.5123 mg/l

## Component Information:

| Chemical name   | Parameter | Species | effektive Dosis | Method          |
|---|-----------|---------|-----------------|-----------------|
| hydrocarbons, C9, aromats<br>-                                | Oral LD50 | Rat     | 3592 mg/kg      | OECD 401        |
| Titanium dioxide<br>13463-67-7                                | Oral LD50 | Rat     | > 10000 mg/kg   |                 |
| xylene (reaction product of xylene<br>and ethylbenzene)<br>-  | Oral LD50 | Rat     | 3523 mg/kg      | EG92/69/EWG B.1 |
| Phosphoric acid, zinc salt (2:3)<br>7779-90-0                 | Oral LD50 | Rat     | > 5000 mg/kg    |                 |
| Zinc oxide (ZnO)<br>1314-13-2                                 | Oral LD50 | Rat     | > 5000 mg/kg    | OECD 401        |
| Carbon black<br>1333-86-4                                     | Oral LD50 | Rat     | > 15400 mg/kg   |                 |
| Isobutyl alcohol<br>78-83-1                                   | Oral LD50 | Rat     | 2460 mg/kg      |                 |
| Hexanoic acid, 2-ethyl-, cobalt(2+)<br>salt (2:1)<br>136-52-7 | Oral LD50 | Rat     | > 5000 mg/kg    |                 |
| Dipropylene glycol monomethyl ether<br>34590-94-8             | Oral LD50 | Rat     | 5.35 g/kg       |                 |

| Chemical name                             | Parameter | Species | effektive Dosis | Method |
|---|-----------|---------|-----------------|--------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | Oral LD50 | Rat     | 3500 mg/kg      |        |
| Ethylbenzene<br>100-41-4                  | Oral LD50 | Rat     | 3500 mg/kg      |        |

| Chemical name                  | Parameters  | Species | Effective dose | Method   |
|--------------------------------|-------------|---------|----------------|----------|
| hydrocarbons, C9, aromats<br>- | Dermal LD50 | Rabbit  | > 3160 mg/kg   | OECD 402 |

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| Chemical name  | Parameters  | Species | Effective dose | Method |
|--|-------------|---------|----------------|--------|
| xylene (reaction product of xylene and ethylbenzene)<br>-  | Dermal LD50 | Rabbit  | 12126 mg/kg    |        |
| Carbon black<br>1333-86-4                                  | Dermal LD50 | Rabbit  | > 3 g/kg       |        |
| Isobutyl alcohol<br>78-83-1                                | Dermal LD50 | Rabbit  | 3400 mg/kg     |        |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | Dermal LD50 | Rabbit  | > 5000 mg/kg   |        |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | Dermal LD50 | Rabbit  | 9500 mg/kg     |        |

| <i>Chemical name</i>                      | <i>Parameters</i> | <i>Species</i> | <i>Effective dose</i> | <i>Method</i> |
|---|-------------------|----------------|-----------------------|---------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | Dermal LD50       | Rabbit         | > 4350 mg/kg          |               |
| Ethylbenzene<br>100-41-4                  | Dermal LD50       | Rabbit         | 15400 mg/kg           |               |

| Chemical name  | Parameters      | Species | Effective dose          | Exposure time | Method |
|--|-----------------|---------|-------------------------|---------------|--------|
| Titanium dioxide<br>13463-67-7                             | Inhalation LD50 | Rat     | > 6.82 mg/L             | 4 h           |        |
| xylene (reaction product of xylene and ethylbenzene)<br>-  | Inhalation LC50 | Rat     | 27124 mg/m <sup>3</sup> | 4 h           |        |
| Zinc oxide (ZnO)<br>1314-13-2                              | Inhalation LC50 | Rat     | > 5.7 mg/L              | 4 h           |        |
| Isobutyl alcohol<br>78-83-1                                | Inhalation LC50 | Rat     | > 6.5 mg/L              | 4 h           |        |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | Inhalation LC50 | Rat     | > 10 mg/L               | 1 h           |        |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | Inhalation LC50 | Rat     | 21 mg/L                 |               |        |

| <i>Chemical name</i>                      | <i>Parameters</i> | <i>Species</i> | <i>Effective dose</i> | <i>Exposure time</i> | <i>Method</i> |
|---|-------------------|----------------|-----------------------|----------------------|---------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | Inhalation LC50   | Rat            | 29.08 mg/L            | 4 h                  |               |
| Ethylbenzene<br>100-41-4                  | Inhalation LC50   | Rat            | 17.4 mg/L             | 4 h                  |               |

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

|                                    |                            |
|------------------------------------|----------------------------|
| Skin corrosion/irritation:         | May cause skin irritation. |
| Serious eye damage/eye irritation: | No information available.  |
| Respiratory or skin sensitization: | No information available.  |
| Germ cell mutagenicity:            | No information available.  |
| Carcinogenicity:                   | No information available.  |



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|                           |  |
|---------------------------|--|
| Reproductive toxicity:    | No information available.  |
| STOT - single exposure:   | May cause respiratory irritation. May cause drowsiness or dizziness. |
| STOT - repeated exposure: | No information available.  |

| Chemical name  | Exposure route | Target Organs   |
|--|----------------|-----------------|
| xylene (reaction product of xylene and ethylbenzene) | Inhalation     | auditory organs |
| -  |                |                 |

Aspiration hazard: No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No information available.

### 11.2.2. Other information

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

fish toxicity:

| Chemical name  | Parameter | Species             | Effective dose   | Exposure time | Method   |
|--|-----------|---------------------|------------------|---------------|----------|
| hydrocarbons, C9, aromats                            | LC50      | Oncorhynchus mykiss | 9.22 mg/L        | 96 h          |          |
| -  |           |                     |                  |               |          |
| xylene (reaction product of xylene and ethylbenzene) | LC50      | Oncorhynchus mykiss | 2.6 mg/L         | 96 h          | OECD 203 |
| -  |           |                     |                  |               |          |
| Zinc oxide (ZnO)<br>1314-13-2                        | LC50      | Danio rerio         | 1.55 mg/L        | 96 h          |          |
| Carbon black<br>1333-86-4                            | CL50      | Brachydanio rerio   | > 1000 mg/L      | 96 h          | OECD 203 |
| Isobutyl alcohol<br>78-83-1                          | LC50      | Oncorhynchus mykiss | 1370 - 1670 mg/L | 96 h          |          |
| Dipropylene glycol<br>monomethyl ether<br>34590-94-8 | LC50      | Pimephales promelas | > 10000 mg/L     | 96 h          |          |

| Chemical name                             | Parameter | Species             | Effective dose | Exposure time | Method |
|---|-----------|---------------------|----------------|---------------|--------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | LC50      | Pimephales promelas | 13.4 mg/L      | 96 h          |        |
| Ethylbenzene<br>100-41-4                  | LC50      | Oncorhynchus mykiss | 4.2 mg/L       | 96 h          |        |

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toxicity to crustacea:

| Chemical name  | Parameter | Species            | Effective dose   | Exposure time | Method   |
|--|-----------|--------------------|------------------|---------------|----------|
| hydrocarbons, C9, aromats<br>-                               | EC50      | Daphnia magna      | 6.14 mg/L        | 48 h          |          |
| xylene (reaction product of<br>xylene and ethylbenzene)<br>- | LC 50     | Daphnia magna      | 1.0 mg/L         | 24 h          | OECD 202 |
| Zinc oxide (ZnO)<br>1314-13-2                                | EC50      | Ceriodaphnia dubia | 0.413 mg/L       | 48 h          |          |
| Carbon black<br>1333-86-4                                    | EC50      | Daphnia magna      | > 5600 mg/L      | 24 h          | OECD 202 |
| Isobutyl alcohol<br>78-83-1                                  | EC50      | Daphnia magna      | 1070 - 1933 mg/L | 48 h          |          |
| Dipropylene glycol<br>monomethyl ether<br>34590-94-8         | LC50      | Daphnia magna      | 1919 mg/L        | 48 h          |          |

| Chemical name                             | Parameter | Species       | Effective dose | Exposure time | Method |
|---|-----------|---------------|----------------|---------------|--------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | EC50      | Daphnia magna | 3.82 mg/L      | 48 h          |        |
| Ethylbenzene<br>100-41-4                  | EC50      | Daphnia magna | 1.8 - 2.4 mg/L | 48 h          |        |

Algae Toxicity:

| Chemical name  | Parameter | Species                            | Effective dose | Exposure time | Method   |
|--|-----------|------------------------------------|----------------|---------------|----------|
| hydrocarbons, C9, aromats<br>-                               | EL50      | Pseudokirchneriella<br>subcapitata | 2.6 - 2.9 mg/L | 72 h          |          |
| xylene (reaction product of<br>xylene and ethylbenzene)<br>- | EC50      | Selenastrum<br>capricornutum       | 2.2 mg/L       | 73 h          | OECD 201 |
| Zinc oxide (ZnO)<br>1314-13-2                                | EC50      | Selenastrum<br>capricornutum       | 0.137 mg/L     | 72 h          | OECD 201 |
| Isobutyl alcohol<br>78-83-1                                  | EC50      | Desmodesmus<br>subspicatus         | 230 mg/L       | 48 h          |          |

| Chemical name            | Parameter | Species                            | Effective dose | Exposure time | Method |
|--------------------------|-----------|------------------------------------|----------------|---------------|--------|
| Ethylbenzene<br>100-41-4 | EC50      | Pseudokirchneriella<br>subcapitata | 4.6 mg/L       | 72 h          |        |

Bacteria toxicity:

| Chemical name  | Parameters | Species          | Effective dose | Exposure time | Method     |
|--|------------|------------------|----------------|---------------|------------|
| xylene (reaction product of<br>xylene and ethylbenzene)<br>- | NOEC       | activated sludge | 16 mg/L        | 28 d          | OECD 301 F |
| Zinc oxide (ZnO)<br>1314-13-2                                | EC50       | activated sludge | 2.4 mg/L       | 3 h           |            |

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## 12.2. Persistence and degradability

Persistence and degradability:

| Chemical name   | degradation rate | test duration | Rapidly biodegradable | Remarks                      | Method    |
|---|------------------|---------------|-----------------------|------------------------------|-----------|
| hydrocarbons, C9, aromats<br>-                            |                  |               | Yes                   |                              |           |
| Titanium dioxide<br>13463-67-7                            | 0 %              |               | No                    |                              |           |
| xylene (reaction product of xylene and ethylbenzene)<br>- | 90 %             | 28 d          | Yes                   |                              |           |
| Isobutyl alcohol<br>78-83-1                               | > 70 %           | 28 d          | Yes                   | Aerobic biological treatment |           |
| Dipropylene glycol monomethyl ether<br>34590-94-8         | 75 %             | 28 d          | Yes                   |                              | OECD 301F |

| Chemical name                             | degradation rate | test duration | Rapidly biodegradable |
|---|------------------|---------------|-----------------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 |                  |               | Yes                   |
| Ethylbenzene<br>100-41-4                  | 70 - 80 %        | 28 d          | Yes                   |

## 12.3. Bioaccumulative potential

Bioaccumulation:

| Chemical name   | Partition coefficient | Bioconcentration factor (BCF) |
|---|-----------------------|-------------------------------|
| xylene (reaction product of xylene and ethylbenzene)<br>- | 3.16                  | 25.9                          |
| Isobutyl alcohol<br>78-83-1                               | 0.79                  |                               |
| Dipropylene glycol monomethyl ether<br>34590-94-8         | -0.064                |                               |
| Chemical name   | Partition coefficient | Bioconcentration factor (BCF) |
| Xylenes (o-, m-, p- isomers)<br>1330-20-7                 | 2.77 - 3.15           | 0.6 - 15                      |
| Ethylbenzene<br>100-41-4                                  | 3.2                   | 15                            |

## 12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

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| Chemical name  | PBT and vPvB assessment  |
|--|--|
| hydrocarbons, C9, aromats<br>-                             | The substance is not PBT / vPvB                                  |
| Titanium dioxide<br>13463-67-7                             | The substance is not PBT / vPvB                                  |
| Phosphoric acid, zinc salt (2:3)<br>7779-90-0              | PBT assessment does not apply                                    |
| Zinc oxide (ZnO)<br>1314-13-2                              | The substance is not PBT / vPvB                                  |
| Triphosphoric acid, aluminum salt (1:1)<br>13939-25-8      | The substance is not PBT / vPvB<br>PBT assessment does not apply |
| Carbon black<br>1333-86-4                                  | The substance is not PBT / vPvB                                  |
| Isobutyl alcohol<br>78-83-1                                | The substance is not PBT / vPvB                                  |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | The substance is not PBT / vPvB                                  |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | The substance is not PBT / vPvB                                  |

| Chemical name                             | PBT and vPvB assessment         |
|---|---------------------------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | The substance is not PBT / vPvB |
| Ethylbenzene<br>100-41-4                  | The substance is not PBT / vPvB |

## 12.6. Endocrine disrupting properties.

No information available.

## 12.7. Other adverse effects.

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products:

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging:

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV: 08 01 11\* (Waste paint and varnish containing organic solvents or other dangerous substances)

## SECTION 14: Transport information

### 14.1. UN number

ADR: UN1263  
RID: UN1263

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IMDG: UN1263  
IATA: UN1263

## 14.2 UN proper shipping name

ADR: Paint  
UN1263, Paint, 3, III, Environmentally Hazardous

RID: Not regulated  
IMDG: Paint  
UN1263, Paint (hydrocarbons, C9, aromats), 3, III, (24°C c.c.), Marine Pollutant

IATA: Paint  
UN1263, Paint, 3, III

## 14.3. Transport hazard class(es)

ADR: 3  
Hazard label(s) 3  
Classification code F1  
Hazard identification number (Kemler No.) 30  
Tunnel restriction code (D/E)  
Limited quantity (LQ) 5 L  
ADR excepted quantity E1

RID: 3  
Labels 3  
Classification code F1

IMDG: 3  
Hazard label(s) 3  
Limited quantity (LQ) 5 L  
IMDG Excepted Quantity E1  
EmS-No F-E, S-E

IATA: 3  
Hazard label(s) 3  
IATA Excepted Quantity E1

## 14.4. Packing group

ADR: III  
RID: III  
IMDG: III  
IATA: III

## 14.5. Environmental hazards

ADR: Yes  
RID: Yes  
IMDG: Marine pollutant  
IATA: Yes

## 14.6. Special precautions for user

ADR:

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Special Provisions: 163, 650, 367  
RID:  
Special Provisions: 163, 650, 367  
IMDG:  
Special Provisions: 163, 223, 367, 955  
IATA:  
Special Provisions: A3, A72, A192  
ERG Code 3L

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

## SECTION 15: Regulatory information

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

#### European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name                  | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|--------------------------------|--|---|
| hydrocarbons, C9, aromats<br>- |  | 3.<br>28.<br>29.<br>40.                   |
| Titanium dioxide<br>13463-67-7 |  | 75.                                       |
| Zinc oxide (ZnO)<br>1314-13-2  |  | 75.                                       |
| Carbon black<br>1333-86-4      |  | 75.                                       |
| Isobutyl alcohol<br>78-83-1    |  | 75.                                       |

| Chemical name                             | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|---|--|---|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 |  | 75.                                       |

Persistent Organic Pollutants: Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):

- P5a - FLAMMABLE LIQUIDS
- P5b - FLAMMABLE LIQUIDS
- P5c - FLAMMABLE LIQUIDS

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E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 30.8 %  
acc. reg. 2004/42/EG (Decopaint): 425 g/L

## National regulations:

Denmark:

| Chemical name  | Denmark - MAL  |
|--|--|
| Titanium dioxide<br>13463-67-7                             | 0 m3/10 g substance MAL factor<br>>=0.1 - 5 % by weight [3]<br>>=5 % by weight [6]<br>>0 % by weight [1]   |
| Phosphoric acid, zinc salt (2:3)<br>7779-90-0              | 0 m3/10 g substance MAL factor<br>>0 % by weight [1]   |
| Zinc oxide (ZnO)<br>1314-13-2                              | 0 m3/10 g substance MAL factor<br>>0 % by weight [1]   |
| Carbon black<br>1333-86-4                                  | 0 m3/10 g substance MAL factor<br>>=0.1 - 5 % by weight [3]<br>>=10 - 25 % by weight [3]<br>>=25 % by weight [6]<br>>=5 % by weight [6]  |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | 0 m3/10 g substance MAL factor<br>>=2.0 % by weight [3]  |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | 5 m3/10 g substance MAL factor<br>>0 % by weight [1]   |
| Quartz<br>14808-60-7                                       | 0 m3/10 g substance MAL factor<br>0.1 mg/m <sup>3</sup> Limit Value respirable<br>>=0.1 - 2 % by weight [3]<br>>=1 - 10 % by weight [3]<br>>=10 % by weight [6]<br>>=2 % by weight [6] |

Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

| Chemical name   | WGK Classification (AwSV) | ID number |
|---|---------------------------|-----------|
| hydrocarbons, C9, aromats<br>-                            | 2                         | -         |
| Titanium dioxide<br>13463-67-7                            | nwg                       | 1345      |
| xylene (reaction product of xylene and ethylbenzene)<br>- | 2                         | 206       |
| Phosphoric acid, zinc salt (2:3)<br>7779-90-0             | 2                         | 5067      |
| Zinc oxide (ZnO)<br>1314-13-2                             | 2                         | 2187      |
| Triphosphoric acid, aluminum salt (1:1)<br>13939-25-8     | 1                         | 9315      |
| Carbon black  | nwg                       | 1742      |

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| Chemical name  | WGK Classification (AwSV) | ID number |
|--|---------------------------|-----------|
| 1333-86-4  |                           |           |
| Isobutyl alcohol<br>78-83-1                                | 1                         | 131       |
| Hexanoic acid, 2-ethyl-, cobalt(2+) salt (2:1)<br>136-52-7 | 2                         | 2305      |
| Dipropylene glycol monomethyl ether<br>34590-94-8          | 1                         | 5087      |
| Quartz<br>14808-60-7                                       | nwg                       | 849       |

| Chemical name                             | WGK Classification (AwSV) | ID number |
|---|---------------------------|-----------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | 2                         | 206       |
| Ethylbenzene<br>100-41-4                  | 1                         | 99        |

TA Luft (German Air Pollution Control Regulation):  
 total dust incl. fine dust (digit 5.2.1): 25 - 30%  
 inorg. subst. dust (digit 5.2.2) class III: < 5%  
 org. substances (Ziffer 5.2.5): 20 - 25%  
 org. subst. (digit 5.2.5) class I: 5 - 10%

Storage class (TRGS 510): 3 • LGK3 - Flammable liquids

France:

Occupational Illnesses (R-463-3, France):

| Chemical name                                     | French RG number |
|---|------------------|
| hydrocarbons, C9, aromats<br>-                    | RG 84            |
| Carbon black<br>1333-86-4                         | RG 16, RG 16bis  |
| Isobutyl alcohol<br>78-83-1                       | RG 84            |
| Dipropylene glycol monomethyl ether<br>34590-94-8 | RG 84            |
| Quartz<br>14808-60-7                              | RG 25            |

| Chemical name                             | French RG number |
|---|------------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 | RG 4bis, RG 84   |
| Ethylbenzene<br>100-41-4                  | RG 84            |

RG 4bis - Gastrointestinal conditions caused by benzene, toluene, xylenes, and any products containing them  
 RG 16 - Skin conditions or mucous membrane conditions caused by coal tars, coal oils (including "phenol", "naphthalene", "acenaphthene", "anthracene", and "chrysene" distillation fractions), coal pitches and soots from combustion of coal  
 RG 16bis - Cancers caused by coal tars, coal oils, coal pitches, and soots from combustion of coal  
 RG 25 - Conditions resulting from inhalation of mineral dusts containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite, or coal.  
 RG 84 - Occupational conditions caused by liquid organic solvents



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Netherlands:

| Chemical name        | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins | ZZS list: SVHC | (p)ZZS list: potential SVHC |
|----------------------|-----------------------------------|--------------------------------|---|----------------|-----------------------------|
| Quartz<br>14808-60-7 | Present<br>X                      |                                |   |                |                             |

| Chemical name                             | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins | ZZS list: SVHC | (p)ZZS list: potential SVHC |
|---|-----------------------------------|--------------------------------|---|----------------|-----------------------------|
| Xylenes (o-, m-, p- isomers)<br>1330-20-7 |                                   |                                | Development<br>Category 2                 |                |                             |
| Ethylbenzene<br>100-41-4                  |                                   |                                |   |                | X                           |

Austria:

Flammable Liquids Regulations, VbF: Flammable liquids: All

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 30.0 %

## International Inventories:

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL/NDSL      | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | Does not comply |

## Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

Chemical Safety Report: No information available

## SECTION 16: Other information

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Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH066 - Repeated exposure may cause skin dryness or cracking  
H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H360 - May damage fertility or the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)  
BCF: Bio-Concentration Factor  
BOD(5): Biochemical oxygen demand (within 5 days)  
CAS: Chemical Abstract Service  
CLP: Classification, Labelling and Packaging  
CMR: Carcinogenic, Mutagenic, toxic for Reproduction  
DIN: German Standards Institute / German industrial norm  
DNEL: Derived No Effect Level  
DOC: Dissolved organic carbon  
EAK/ AVV: European waste catalogue/ waste directory-regulation  
EC50: Effective Concentration 50%  
ECHA: European Chemical Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
IATA: International Air Transport Association  
IC50: Inhibition Concentration 50%  
IMDG: International Maritime Dangerous Goods Code  
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%  
MAK: Treshold limit values Germany  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
OECD: Organization for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PC: Product category  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation and Authorization of Chemicals  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
STP: Sewage treatment plant

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Kluthe Rostosan Plus - 011210337001

SVHC: Substance of Very High Concern  
TLV: Threshold Limit Value  
TWA: Time Weighted Average  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent, very bioaccumulative

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

\* Skin designation

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitization                                       | Calculation method |
| Skin sensitization  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |
| STOT - repeated exposure  | Calculation method |
| Acute aquatic toxicity  | Calculation method |
| Chronic aquatic toxicity  | Calculation method |
| Aspiration hazard   | Calculation method |
| Ozone   | Calculation method |

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

# SAFETY DATA SHEET

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

**Disclaimer:**

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**End of Safety Data Sheet**