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



Revision date: 25-Aug-2021 Revision Number: 1

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

### 1.1. Product identifier

Product Name: Kluthe KS 2 RAL 1004

Article number: 021210331004

Hazard components for labeling: Contains n-Butyl acetate, xylene (reaction product of xylene and

ethylbenzene), Bisphenol A diglycidyl ether, Maleic anhydride, Fatty

acids, C14-18 and C16-18-unsaturated, maleated

# 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

Feldstrasse 55

D - 46149 Oberhausen Telefon: +49 208/ 9948-0 Telefax: +49 208/ 650625 www.conticoatings.com

E-mail address sds.ob@kluthe.com

### 1.4. Emergency telephone number

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

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

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

| Flammable liquids                                  | Category 3 - (H226)      |
|--|--------------------------|
| Skin corrosion/irritation                          | Category 2 - (H315)      |
| Serious eye damage/eye irritation                  | Category 2 - (H319)      |
| Skin sensitization                                 | Category 1A - (H317)     |
| Specific target organ toxicity (single exposure)   | Category 3 - (H335,H336) |
| Specific target organ toxicity (repeated exposure) | Category 2 - (H373)      |
| Chronic aquatic toxicity                           | Category 3 - (H412)      |

#### 2.2. Label elements

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Signal word: Warning

#### Hazard components for labeling:

Contains n-Butyl acetate, xylene (reaction product of xylene and ethylbenzene), Bisphenol A diglycidyl ether, Maleic anhydride, Fatty acids, C14-18 and C16-18-unsaturated, maleated

#### Hazard statements:

- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

#### **EU Specific Hazard Statements:**

### 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
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- 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, CO2, water spray or alcohol-resistant foam to extinguish
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

#### **Additional information**

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

No information available.

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

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

| Chemical name | CAS No | EC No | REACH registration | Classification      | Weight-% |
|---------------|--------|-------|--------------------|---------------------|----------|
|               |        |       | number             | according to        |          |
|               |        |       |                    | Regulation (EC) No. |          |
|               |        |       |                    | 1272/2008 [CLP]     |          |

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| n-Butyl acetate                                      | 123-86-4   | 204-658-1 | 01-2119485493-29 | Flam. Liq. 3 (H226)<br>STOT SE 3 (H336)<br>(EUH066)  | 10 - < 25       |
|--|------------|-----------|------------------|--|-----------------|
| xylene (reaction product of xylene and ethylbenzene) | -          | 905-588-0 | 01-2119539452-40 | Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) STOT RE 2 (H373) | 10 - < 25       |
| hydrocarbons, C9, aromats                            | -          | 918-668-5 | 01-2119455851-35 | Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT SE 3 (H336) Aquatic Chronic 2 (H411) (EUH066)   | 5 - < 10        |
| Bisphenol A diglycidyl ether                         | 1675-54-3  | 216-823-5 | 01-2119456619-36 | Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317)<br>Eye Irrit. 2 (H319)<br>Aquatic Chronic 2<br>(H411)  | 0.5 - < 1       |
| Fatty acids, C14-18 and C16-18-unsaturated, maleated | 85711-46-2 | 288-306-2 | 01-2119978273-29 | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319)  | 0.1 - < 0.25    |
| Quartz   | 14808-60-7 | 238-878-4 | -                | [B]  | 0.005 - < 0.01  |
| Methyl methacrylate                                  | 80-62-6    | 201-297-1 | -                | Flam. Liq. 2 (H225)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317)<br>STOT SE 3 (H335)   | 0.005 - < 0.01  |
| Maleic anhydride                                     | 108-31-6   | 203-571-6 | 01-2119472428-31 | Acute Tox. 4 (H302) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) STOT RE 1 (H372) (EUH071)                             | 0.001 - < 0.005 |

# [B] - Substance with a Community workplace exposure limit

| Chemical name                             | Specific concentration limit (SCL)              | M-Factor | M-Factor<br>(long-term) | Notes |
|---|---|----------|-------------------------|-------|
| Bisphenol A diglycidyl ether<br>1675-54-3 | Skin Irrit. 2 :: C>=5%<br>Eye Irrit. 2 :: C>=5% |          |                         |       |
| Methyl methacrylate<br>80-62-6            | STOT SE 3 :: C>=10%                             |          |                         | D     |
| Maleic anhydride<br>108-31-6              | Skin Sens. 1A :: C>=0.001%                      |          |                         |       |

### **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

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| Chemical name  | Oral LD50 | Dermal LD50 | hour - dust/mist - | Inhalation LC50 - 4<br>hour - vapor - mg/L |                   |
|--|-----------|-------------|--------------------|--|-------------------|
|  |           |             | mg/L               |  |                   |
| n-Butyl acetate<br>123-86-4                          | 10768     | 17060       | No data available  | 23.4                                       | No data available |
| xylene (reaction product of xylene and ethylbenzene) | 3523      | 12126       | 1.5                | 27.1                                       | No data available |
| hydrocarbons, C9, aromats                            | 3592      | 3200        | No data available  | No data available                          | No data available |
| Bisphenol A diglycidyl ether 1675-54-3               | 2002      | 2002        | No data available  | No data available                          | No data available |
| Methyl methacrylate<br>80-62-6                       | 8420      | 5000        | No data available  | 29.0421                                    | No data available |
| Maleic anhydride<br>108-31-6                         | 1090      | 2620        | 0.00435            | No data available                          | No data available |

hazardous components above-mentioned substances/ substance mixtures:

| iazaradas demperiente above mentionea dabotanoco, dabotanoc mixtares. |           |           |                    |                          |           |  |  |
|---|-----------|-----------|--------------------|--------------------------|-----------|--|--|
| Chemical name   | CAS No    | EC No     | REACH registration | Classification according | Weight-%  |  |  |
|   |           |           | number             | to Regulation (EC) No.   |           |  |  |
|   |           |           |                    | 1272/2008 [CLP]          |           |  |  |
| Xylenes (o-, m-, p- isomers)  | 1330-20-7 | 215-535-7 | 01-2119488216-32   | Flam. Liq. 3 (H226)      | 10 - < 25 |  |  |
| 1330-20-7   |           |           |                    | Acute Tox. 4 (H312)      |           |  |  |
|   |           |           |                    | Skin Irrit. 2 (H315)     |           |  |  |
|   |           |           |                    | Acute Tox. 4 (H332)      |           |  |  |
| Ethylbenzene  | 100-41-4  | 202-849-4 | 01-2119489370-35   | Flam. Liq. 2 (H225)      | 1 - < 3   |  |  |
| 100-41-4  |           |           |                    | Asp. Tox. 1 (H304)       |           |  |  |
|   |           |           |                    | Acute Tox. 4 (H332)      |           |  |  |
|   |           |           |                    | STOT RE 2 (H373)         |           |  |  |

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. Get

medical attention immediately if symptoms occur.

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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or

allergic reactions see a physician.

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

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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. Avoid contact with skin, eyes or clothing.

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

Symptoms: Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

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

Note to physicians: May cause sensitization in susceptible persons. Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

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. Product is or contains a sensitizer. May cause sensitization by skin contact.

### 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.

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### 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.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up:

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

#### 7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. 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. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash before reuse.

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. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or

clothing.

# 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.

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# 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                     |
|---------------------|----------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| n-Butyl acetate     |                            | TWA: 62 ppm                  |                             | TWA: 150 ppm                | TWA: 150 ppm                | TWA: 950 mg/m <sup>3</sup>  |
| 123-86-4            |                            | TWA: 300 mg/m <sup>3</sup>   |                             | TWA: 724 mg/m <sup>3</sup>  | TWA: 724 mg/m <sup>3</sup>  | STEL: 950 mg/m <sup>3</sup> |
|                     |                            |                              |                             | STEL: 200 ppm               | STEL: 200 ppm               |                             |
|                     |                            |                              |                             | STEL: 965 mg/m <sup>3</sup> | STEL: 966 mg/m <sup>3</sup> |                             |
| hydrocarbons, C9,   |                            | RCP: C9-14                   |                             |                             |                             |                             |
| aromats             |                            | aromates:                    |                             |                             |                             |                             |
| -                   |                            | STEL: 50 mg/m <sup>3</sup> - |                             |                             |                             |                             |
|                     |                            | 2(II)                        |                             |                             |                             |                             |
| Quartz              | TWA: 0.1 mg/m <sup>3</sup> |                              | TWA: 0.075                  | TWA: 0.05 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup>  | TWA: 0.15 mg/m <sup>3</sup> |
| 14808-60-7          |                            |                              | mg/m³                       |                             |                             |                             |
| Methyl methacrylate | TWA: 50 ppm                | TWA: 50 ppm                  | TWA: 205 mg/m <sup>3</sup>  | TWA: 50 ppm                 | TWA: 50 ppm                 | TWA: 208 mg/m <sup>3</sup>  |
| 80-62-6             | STEL: 100 ppm              | TWA: 210 mg/m <sup>3</sup>   | STEL: 410 mg/m <sup>3</sup> | STEL: 100 ppm               | TWA: 208 mg/m <sup>3</sup>  | STEL: 415 mg/m <sup>3</sup> |
|                     |                            |                              |                             |                             | STEL: 100 ppm               | b*                          |
|                     |                            |                              |                             |                             | STEL: 416 mg/m <sup>3</sup> |                             |
| Maleic anhydride    |                            | TWA: 0.02 ppm                |                             | TWA: 0.1 ppm                | TWA: 1 mg/m <sup>3</sup>    | TWA: 0.4 mg/m <sup>3</sup>  |
| 108-31-6            |                            | TWA: 0.081                   |                             | TWA: 0.4 mg/m <sup>3</sup>  | STEL: 3 mg/m <sup>3</sup>   | STEL: 0.4 mg/m <sup>3</sup> |
|                     |                            | mg/m³                        |                             |                             |                             | _                           |

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

| Chemical name       | France                      | Italy         | Portugal                    | Finland                     | Denmark                    | Czech Republic               |
|---------------------|-----------------------------|---------------|-----------------------------|-----------------------------|----------------------------|------------------------------|
| n-Butyl acetate     | TWA: 150 ppm                |               | TWA: 150 ppm                | TWA: 150 ppm                | TWA: 150 ppm               | TWA: 950 mg/m <sup>3</sup>   |
| 123-86-4            | TWA: 710 mg/m <sup>3</sup>  |               | STEL: 200 ppm               | TWA: 720 mg/m <sup>3</sup>  | TWA: 710 mg/m <sup>3</sup> | Ceiling: 1200                |
|                     | STEL: 200 ppm               |               |                             | STEL: 200 ppm               |                            | mg/m³                        |
|                     | STEL: 940 mg/m <sup>3</sup> |               |                             | STEL: 960 mg/m <sup>3</sup> |                            | _                            |
| Quartz              | TWA: 0.1 mg/m <sup>3</sup>  |               | TWA: 0.025                  | TWA: 0.05 mg/m <sup>3</sup> | TWA: 0.3 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup>   |
| 14808-60-7          |                             |               | mg/m³                       |                             | TWA: 0.1 mg/m <sup>3</sup> |                              |
| Methyl methacrylate | TWA: 50 ppm                 | TWA: 50 ppm   | TWA: 50 ppm                 | TWA: 10 ppm                 | TWA: 25 ppm                | TWA: 50 mg/m <sup>3</sup>    |
| 80-62-6             | TWA: 205 mg/m <sup>3</sup>  | STEL: 100 ppm | STEL: 100 ppm               | TWA: 42 mg/m <sup>3</sup>   | TWA: 102 mg/m <sup>3</sup> | Ceiling: 150                 |
|                     | STEL: 100 ppm               |               |                             | STEL: 50 ppm                | H*                         | mg/m³                        |
|                     | STEL: 410 mg/m <sup>3</sup> |               |                             | STEL: 210 mg/m <sup>3</sup> |                            | D*                           |
| Maleic anhydride    | STEL: 1 mg/m <sup>3</sup>   |               | TWA: 0.01 mg/m <sup>3</sup> | TWA: 0.1 ppm                | TWA: 0.1 ppm               | TWA: 1 mg/m <sup>3</sup>     |
| 108-31-6            |                             |               |                             | TWA: 0.41 mg/m <sup>3</sup> | TWA: 0.4 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup> |
|                     |                             |               |                             | Ceiling: 0.2 ppm            | •                          |                              |
|                     |                             |               |                             | Ceiling: 0.81               |                            |                              |
|                     |                             |               |                             | mg/m³                       |                            |                              |

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

| Chemical name       | Austria                       | Switzerland                 | Poland                      | Norway                      | Ireland                     | Russia                      |
|---------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| n-Butyl acetate     | TWA: 100 ppm                  | TWA: 100 ppm                | STEL: 720 mg/m <sup>3</sup> | TWA: 75 ppm                 | TWA: 150 ppm                | TWA: 50 mg/m <sup>3</sup>   |
| 123-86-4            | TWA: 480 mg/m <sup>3</sup>    | TWA: 480 mg/m <sup>3</sup>  | TWA: 240 mg/m <sup>3</sup>  | TWA: 355 mg/m <sup>3</sup>  | TWA: 710 mg/m <sup>3</sup>  | STEL: 200 mg/m <sup>3</sup> |
|                     | STEL 100 ppm                  | STEL: 200 ppm               |                             | STEL: 112.5 ppm             | STEL: 200 ppm               |                             |
|                     | STEL 480 mg/m <sup>3</sup>    | STEL: 960 mg/m <sup>3</sup> |                             | STEL: 443.75                | STEL: 950 mg/m <sup>3</sup> |                             |
|                     | Ceiling 100 ppm               |                             |                             | mg/m³                       |                             |                             |
|                     | Ceiling 480 mg/m <sup>3</sup> |                             |                             |                             |                             |                             |
| Quartz              | 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>  | TWA: 0.1 mg/m <sup>3</sup>  | TWA: 1 mg/m <sup>3</sup>    |
| 14808-60-7          |                               |                             |                             | TWA: 0.1 mg/m <sup>3</sup>  |                             | STEL: 3 mg/m <sup>3</sup>   |
|                     |                               |                             |                             | STEL: 0.9 mg/m <sup>3</sup> |                             |                             |
|                     |                               |                             |                             | STEL: 0.3 mg/m <sup>3</sup> |                             |                             |
| Methyl methacrylate | TWA: 50 ppm                   | TWA: 50 ppm                 | STEL: 300 mg/m <sup>3</sup> | TWA: 25 ppm                 | TWA: 50 ppm                 | TWA: 10 mg/m <sup>3</sup>   |
| 80-62-6             | TWA: 210 mg/m <sup>3</sup>    | TWA: 210 mg/m <sup>3</sup>  | TWA: 100 mg/m <sup>3</sup>  | TWA: 100 mg/m <sup>3</sup>  | STEL: 100 ppm               | STEL: 20 mg/m <sup>3</sup>  |
|                     | STEL 100 ppm                  | STEL: 100 ppm               |                             | STEL: 100 ppm               |                             |                             |
|                     | STEL 420 mg/m <sup>3</sup>    | STEL: 420 mg/m <sup>3</sup> |                             | STEL: 400 mg/m <sup>3</sup> |                             |                             |
| Maleic anhydride    | TWA: 0.1 ppm                  | TWA: 0.1 ppm                | STEL: 1 mg/m <sup>3</sup>   | TWA: 0.2 ppm                | TWA: 0.01 ppm               | MAC: 1 mg/m <sup>3</sup>    |
| 108-31-6            | TWA: 0.4 mg/m <sup>3</sup>    | TWA: 0.4 mg/m <sup>3</sup>  | TWA: 0.5 mg/m <sup>3</sup>  | TWA: 0.8 mg/m <sup>3</sup>  | STEL: 0.03 ppm              | Skin                        |
|                     | STEL 0.2 ppm                  | STEL: 0.1 ppm               |                             | STEL: 0.6 ppm               |                             |                             |
|                     | STEL 0.8 mg/m <sup>3</sup>    | STEL: 0.4 mg/m <sup>3</sup> |                             | STEL: 2.4 mg/m <sup>3</sup> |                             |                             |

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

Biological occupational exposure limits:

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

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| Chemical name | European Union | Germany              | Netherlands | Spain          | United Kingdom | Hungary |
|---------------|----------------|----------------------|-------------|----------------|----------------|---------|
|               |                | acid) - end of shift |             | acid) - end of |                |         |
|               |                |                      |             | workweek       |                |         |

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

| Chemical name                                | Austria   | Switzerland   | Poland | Norway | Ireland  | Russia |
|--|---|---|--------|--------|--|--------|
| Xylenes (o-, m-, p-<br>isomers)<br>1330-20-7 | 1.5 g/L - urine<br>(Methylhippuric<br>acid) - after end of<br>work day, at the<br>end of a work<br>week/end of the<br>shift | 2 g/L - urine<br>(Methylhippuric<br>acid) - end of shift  |        |        | 1.5 g/g Creatinine - urine (Methylhippuric acids) - end of shift   |        |
| Ethylbenzene<br>100-41-4                     |   | 600 mg/g<br>creatinine - urine<br>(Mandelic acid<br>and<br>Phenylglyoxylacid)<br>- end of shift |        |        | 0.7 g/g Creatinine - urine (sum of Mandelic acid and Phenylglyoxylic acid) - end of shift at end of workweek 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      |
|--|-------------------------|-------------------------|------------------------|------------------------|
| n-Butyl acetate                                      | 300 mg/m <sup>3</sup>   |                         |                        | 600 mg/m <sup>3</sup>  |
| xylene (reaction product of xylene and ethylbenzene) | 221 mg/m³               | 442 mg/m³               | 221 mg/m³              | 442 mg/m³              |
| hydrocarbons, C9, aromats                            | 150 mg/m <sup>3</sup>   |                         |                        |                        |
| Bisphenol A diglycidyl ether                         | 12.25 mg/m <sup>3</sup> | 12.25 mg/m <sup>3</sup> |                        |                        |
| Maleic anhydride                                     | 190 μg/cm <sup>2</sup>  | 800 μg/cm <sup>2</sup>  | 320 μg/cm <sup>2</sup> | 800 μg/cm <sup>2</sup> |

| Chemical name                | short term, local     | short term, systemic | long term, local      | long term, systemic |
|------------------------------|-----------------------|----------------------|-----------------------|---------------------|
| Xylenes (o-, m-, p- isomers) | 442 mg/m³             | 442 mg/m³            | 221 mg/m <sup>3</sup> | 221 mg/m³           |
| Ethylbenzene                 | 293 mg/m <sup>3</sup> |                      |                       | 77 mg/m³            |

Worker - dermal:

| Chemical name long term, system | c short term, systemic | long term, local | short term, local |
|---------------------------------|------------------------|------------------|-------------------|
|---------------------------------|------------------------|------------------|-------------------|

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| Chemical name  | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| n-Butyl acetate                                      | 11 mg/kg            |                      |                  |                   |
| xylene (reaction product of xylene and ethylbenzene) | 212 mg/kg bw/day    |                      |                  |                   |
| hydrocarbons, C9, aromats                            | 25 mg/kg bw/day     |                      |                  |                   |
| Bisphenol A diglycidyl ether                         | 8.33 mg/kg bw/day   | 8.33 mg/kg bw/day    |                  |                   |
| Fatty acids, C14-18 and C16-18-unsaturated, maleated | 3.33 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     |
|--|------------------------|----------------------|------------------------|-----------------------|
| n-Butyl acetate                                      | 35.7 mg/m <sup>3</sup> |                      |                        | 300 mg/m <sup>3</sup> |
| xylene (reaction product of xylene and ethylbenzene) | 65.3 mg/m³             | 260 mg/m³            | 65.3 mg/m³             | 260 mg/m³             |
| hydrocarbons, C9, aromats                            | 32 mg/m <sup>3</sup>   |                      |                        |                       |
| Maleic anhydride                                     | 0.05 mg/m <sup>3</sup> |                      | 0.08 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 |
|------------------------------|---------------------|----------------------|------------------|-------------------|
| n-Butyl acetate              | 6 mg/kg bw/day      |                      |                  |                   |
| xylene (reaction product of  | 125 mg/kg bw/day    |                      |                  |                   |
| xylene and ethylbenzene)     |                     |                      |                  |                   |
| hydrocarbons, C9, aromats    | 11 mg/kg bw/day     |                      |                  |                   |
| Bisphenol A diglycidyl ether | 3.571 mg/kg bw/day  | 3.571 mg/kg bw/day   |                  |                   |
| Fatty acids, C14-18 and      | 1.67 mg/kg bw/day   |                      |                  |                   |
| C16-18-unsaturated,          |                     |                      |                  |                   |
| maleated                     |                     |                      |                  |                   |
| Maleic anhydride             | 0.1 mg/kg bw/day    | 0.1 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:

| Chemical name                | long term, systemic | short term, systemic | long term, local | short term, local |
|------------------------------|---------------------|----------------------|------------------|-------------------|
| n-Butyl acetate              | 2 mg/kg bw/day      |                      |                  |                   |
| xylene (reaction product of  | 12.5 mg/kg bw/day   |                      |                  |                   |
| xylene and ethylbenzene)     |                     |                      |                  |                   |
| hydrocarbons, C9, aromats    | 11 mg/kg bw/day     |                      |                  |                   |
| Bisphenol A diglycidyl ether | 0.75 mg/kg bw/day   | 0.75 mg/kg bw/day    |                  |                   |

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| Chemical name  | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| Fatty acids, C14-18 and C16-18-unsaturated, maleated | 1.67 mg/kg bw/day   |                      |                  |                   |
| Maleic anhydride                                     | 0.06 mg/kg bw/day   | 0.1 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              | n-Butyl acetate |
|----------------------------|-----------------|
| Freshwater                 | 0.18 mg/L       |
| Marine water               | 0.018 mg/L      |
| Intermittent release       | 0.36 mg/L       |
| Impact on Sewage Treatment | 35.6 mg/L       |
| Freshwater sediment        | 0.981 mg/kg     |
| Marine sediment            | 0.098 mg/kg     |
| Soil                       | 0.0903 mg/kg    |

| 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              | Bisphenol A diglycidyl ether |
|----------------------------|------------------------------|
| Freshwater                 | 6 μg/L                       |
| Marine water               | 0.6 μg/L                     |
| Intermittent release       | 18 μg/L                      |
| Impact on Sewage Treatment | 10 mg/L                      |
| Freshwater sediment        | 0.996 mg/kg                  |
| Marine sediment            | 0.0996 mg/kg                 |
| Soil                       | 0.196 mg/kg                  |

| Chemical name       | Maleic anhydride               |
|---------------------|--------------------------------|
| Freshwater          | 75-100 μg/L                    |
| Marine water        | 428.1-750 μg/L                 |
| Freshwater sediment | 0.06-0.334 mg/kg dry weight    |
| Marine sediment     | 0.006-0.0334 mg/kg dry weight  |
| Soil                | 0.001-0.00415 mg/kg dry weight |

| 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                    |  |

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2.68 mg/kg dry weight

20 mg/kg dry weight

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| 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      |

# 8.2. Exposure controls

Soil Food chain

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

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 yellow

**Odor** characteristic

Conditions Method Remarks

Melting point / melting range Not established

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Boiling point / boiling range > 100 °C

Flammability Not established

Decomposition temperature not relevant

Flash point > 23 °C

Autoignition temperature None known

Lower explosive limit not relevant

Upper explosion limit not relevant

Vapor pressure>1100hPa50 °C

**Density** ~ 1.440 g/cm³ 20 °C

Water solubility slightly soluble

**pH** Not applicable

pH (as aqueous solution)

Not established

Partition coefficient Not established

Kinematic viscosity > 21 mm<sup>2</sup>/s 40 °C

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

# 9.2. Other information

Bulk density:no data availableSoftening pointNo information availableMolecular weightNo 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

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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: Strong acids. Strong bases. Strong oxidizing agents.

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: Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

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

irritation. (based on components). May cause redness, itching, and pain.

Skin contact: May cause sensitization by skin contact. Specific test data for the substance or mixture

is not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes skin irritation.

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

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Inhalation

of high vapor concentrations may cause symptoms like headache, dizziness, tiredness,

nausea and vomiting.

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# Numerical measures of toxicity:

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

ATEmix (dermal) 7,982.90 mg/kg
ATEmix (inhalation-dust/mist) 11.90 mg/l
ATEmix (inhalation-vapor) 53.80 mg/l

Component Information:

| Chemical name  | Parameter | Species | effektive Dosis    | Method          |
|--|-----------|---------|--------------------|-----------------|
| n-Butyl acetate<br>123-86-4                            | Oral LD50 | Rat     | 10768 mg/kg        | OECD 423        |
| xylene (reaction product of xylene and ethylbenzene) - | Oral LD50 | Rat     | 3523 mg/kg         | EG92/69/EWG B.1 |
| hydrocarbons, C9, aromats -                            | Oral LD50 | Rat     | 3592 mg/kg         | OECD 401        |
| Bisphenol A diglycidyl ether 1675-54-3                 | Oral LD50 | Rat     | > 2000 mg/kg       | OECD 420        |
| Methyl methacrylate<br>80-62-6                         | Oral LD50 | Rat     | 8420 - 10000 mg/kg |                 |
| Maleic anhydride<br>108-31-6                           | Oral LD50 | Rat     | 1090 mg/kg         | OECD 401        |

| 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   |
|--|-------------|---------|-------------------|----------|
| n-Butyl acetate<br>123-86-4                                  | Dermal LD50 | Rabbit  | > 5000 mg/kg      | OECD 402 |
| xylene (reaction product of xylene<br>and ethylbenzene)<br>- | Dermal LD50 | Rabbit  | 12126 mg/kg       |          |
| hydrocarbons, C9, aromats                                    | Dermal LD50 | Rabbit  | > 3160 mg/kg      | OECD 402 |
| Bisphenol A diglycidyl ether 1675-54-3                       | Dermal LD50 | Rat     | > 2000 mg/kg      | OECD 402 |
| Methyl methacrylate<br>80-62-6                               | Dermal LD50 | Rabbit  | 5000 - 7500 mg/kg |          |
| Maleic anhydride<br>108-31-6                                 | Dermal LD50 | Rabbit  | 2620 mg/kg        |          |

| Chemical name                             | Parameters  | Species | Effective dose | Method |
|---|-------------|---------|----------------|--------|
| 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 |  |
|--------------------------|---------|----------------|---------------|--------|--|
|--------------------------|---------|----------------|---------------|--------|--|

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| Chemical name  | Parameters      | Species | Effective dose          | Exposure time | Method   |
|--|-----------------|---------|-------------------------|---------------|----------|
| n-Butyl acetate<br>123-86-4                                  | Inhalation LC50 | Rat     | 23.4 mg/m³              | 4 h           | OECD 403 |
| xylene (reaction product of<br>xylene and ethylbenzene)<br>- | Inhalation LC50 | Rat     | 27124 mg/m <sup>3</sup> | 4 h           |          |
| Methyl methacrylate<br>80-62-6                               | Inhalation LC50 | Rat     | 7093 ppm                | 4 h           |          |
| Maleic anhydride<br>108-31-6                                 | Inhalation LC50 | Rat     | 4.35 mg/m <sup>3</sup>  | 4 h           |          |

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

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

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause sensitization by skin contact.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity:

No information available.

STOT - single exposure: May cause respiratory irritation. May cause drowsiness or

dizziness.

STOT - repeated exposure: May cause damage to organs through prolonged or repeated

exposure.

| Chemical name  | Exposure route | Target Organs   |
|--|----------------|-----------------|
| xylene (reaction product of xylene and ethylbenzene) | Inhalation     | auditory organs |
| Maleic anhydride<br>108-31-6                         | Inhalation     | lung            |

Aspiration hazard: No information available.

#### 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

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No information available.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

fish toxicity:

| Chemical name   | Parameter | Species  | Effective dose   | Exposure time | Method   |
|---|-----------|--|--|---------------|----------|
| n-Butyl acetate<br>123-86-4                                     | LC50      | Pimephales promelas  | 17 - 19 mg/L   | 96 h          | OECD 203 |
| xylene (reaction product of xylene and ethylbenzene)            | LC50      | Oncorhynchus mykiss  | 2.6 mg/L   | 96 h          | OECD 203 |
| hydrocarbons, C9, aromats                                       | LC50      | Oncorhynchus mykiss  | 9.22 mg/L  | 96 h          |          |
| Bisphenol A diglycidyl ether 1675-54-3                          | LC50      | Oncorhynchus mykiss  | 1.5 mg/L   | 96 h          | OECD 203 |
| Fatty acids, C14-18 and C16-18-unsaturated, maleated 85711-46-2 | LC50      | Danio rerio  | > 100 mg/L   | 96 h          |          |
| Methyl methacrylate<br>80-62-6                                  | LC50      | Pimephales promelas<br>Lepomis macrochirus<br>Oncorhynchus mykiss<br>Poecilia reticulata | 243 - 275 mg/L<br>125.5 - 190.7<br>mg/L<br>170 - 206 mg/L<br>153.9 - 341.8<br>mg/L | 96 h          |          |
| Maleic anhydride<br>108-31-6                                    | LC50      | Oncorhynchus mykiss  | 75 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          |        |

toxicity to crustacea:

| Chemical name  | Parameter | Species       | Effective dose | Exposure time | Method   |
|--|-----------|---------------|----------------|---------------|----------|
| n-Butyl acetate<br>123-86-4                          | EC50      | Daphnia magna | 44 mg/L        | 48 h          | OECD 202 |
| xylene (reaction product of xylene and ethylbenzene) | LC 50     | Daphnia magna | 1.0 mg/L       | 24 h          | OECD 202 |
| hydrocarbons, C9, aromats                            | EC50      | Daphnia magna | 6.14 mg/L      | 48 h          |          |
| Bisphenol A diglycidyl ether 1675-54-3               | EC50      | Daphnia magna | 2.7 mg/L       | 48 h          |          |
| Methyl methacrylate<br>80-62-6                       | EC50      | Daphnia magna | 69 mg/L        | 48 h          |          |
| Maleic anhydride                                     | EC50      | Daphnia magna | 42.81 mg/L     | 48 h          | OECD 202 |

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| Chemical name                | Parameter | Species       | Effective dose | Exposure time | Method |
|------------------------------|-----------|---------------|----------------|---------------|--------|
| 108-31-6                     |           |               |                |               |        |
|                              |           |               |                |               |        |
| Chemical name                | Parameter | Species       | Effective dose | Exposure time | Method |
| Xylenes (o-, m-, p- isomers) | EC50      | Daphnia magna | 3.82 mg/L      | 48 h          |        |

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

### Algae Toxicity:

| Chemical name  | Parameter | Species                         | Effective dose | Exposure time | Method   |
|--|-----------|---------------------------------|----------------|---------------|----------|
| n-Butyl acetate<br>123-86-4                          | EC50      | Desmodesmus subspicatus         | 674.7 mg/L     | 72 h          |          |
| xylene (reaction product of xylene and ethylbenzene) | EC50      | Selenastrum capricornutum       | 2.2 mg/L       | 73 h          | OECD 201 |
| hydrocarbons, C9, aromats                            | EL50      | Pseudokirchneriella subcapitata | 2.6 - 2.9 mg/L | 72 h          |          |
| Bisphenol A diglycidyl ether 1675-54-3               | EC50      | Selenastrum<br>capricornutum    | 9.4 mg/L       | 72 h          |          |
| Methyl methacrylate<br>80-62-6                       | EC50      | Pseudokirchneriella subcapitata | 170 mg/L       | 96 h          |          |
| Maleic anhydride<br>108-31-6                         | EC50      | Pseudokirchneriella subcapitata | 74.35 mg/L     | 72 h          | OECD 201 |

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

### Bacteria toxicity:

| Chemical name  | <b>Parameters</b> | Species          | Effective dose | Exposure time | Method     |
|--|-------------------|------------------|----------------|---------------|------------|
| xylene (reaction product of xylene and ethylbenzene) | NOEC              | activated sludge | 16 mg/L        | 28 d          | OECD 301 F |

# 12.2. Persistence and degradability

Persistence and degradability:

| Chemical name  | degradation rate | test duration | Rapidly biodegradable | Remarks | Method |
|--|------------------|---------------|-----------------------|---------|--------|
| n-Butyl acetate<br>123-86-4                          | 23 %             | 28 d          | Yes                   |         |        |
| xylene (reaction product of xylene and ethylbenzene) | 90 %             | 28 d          | Yes                   |         |        |
| hydrocarbons, C9, aromats                            |                  |               | Yes                   |         |        |

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| Chemical name                | degradation rate | test duration | Rapidly biodegradable | Remarks | Method |
|------------------------------|------------------|---------------|-----------------------|---------|--------|
| -                            |                  |               |                       |         |        |
| Maleic anhydride<br>108-31-6 |                  |               | Yes                   |         |        |

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

# 12.3. Bioaccumulative potential

Bioaccumulation:

| Chemical name  | Partition coefficient | Bioconcentration factor (BCF) |
|--|-----------------------|-------------------------------|
| n-Butyl acetate                                      | 1.81                  | 15                            |
| 123-86-4   |                       |                               |
| xylene (reaction product of xylene and ethylbenzene) | 3.16                  | 25.9                          |
| -  |                       |                               |
| Methyl methacrylate                                  | 0.7                   |                               |
| 80-62-6  |                       |                               |

| 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.

No information available.

# 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

| Chemical name  | PBT and vPvB assessment         |
|--|---------------------------------|
| n-Butyl acetate                                      | The substance is not PBT / vPvB |
| 123-86-4   |                                 |
| hydrocarbons, C9, aromats                            | The substance is not PBT / vPvB |
| -  |                                 |
| Bisphenol A diglycidyl ether                         | The substance is not PBT / vPvB |
| 1675-54-3  |                                 |
| Fatty acids, C14-18 and C16-18-unsaturated, maleated | The substance is not PBT / vPvB |
| 85711-46-2   |                                 |
| Methyl methacrylate                                  | The substance is not PBT / vPvB |
| 80-62-6  | PBT assessment does not apply   |
| Maleic anhydride                                     | The substance is not PBT / vPvB |

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| 108-31-6                                  | PBT assessment does not apply   |
|---|---------------------------------|
| 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.

| Chemical name                | EU - Endocrine Disrupters<br>Candidate List | EU - Endocrine Disrupters -<br>Evaluated Substances |
|------------------------------|---|---|
| Bisphenol A diglycidyl ether | Group II Chemical                           | -   |
| 1675-54-3                    | ·   |   |

#### 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 IMDG: UN1263 IATA: UN1263

# 14.2 UN proper shipping name

ADR: PAINT

UN1263, PAINT, 3, III

RID: PAINT

UN1263, PAINT, 3, III

IMDG: PAINT UN1263, PAINT, 3, III, (23°C C.C.)

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IATA: PAINT

UN1263, PAINT, 3, III

# 14.3. Transport hazard class(es)

| ADR: Hazard label(s) Classification code Hazard identification number            | 3<br>3<br>F1<br>30              |
|--|---------------------------------|
| (Kemler No.) Tunnel restriction code Limited quantity (LQ) ADR excepted quantity | (D/E)<br>5 L<br>E1              |
| RID:<br>Labels<br>Classification code  | 3<br>3<br>F1                    |
| IMDG: Hazard label(s) Limited quantity (LQ) IMDG Excepted Quanity EmS-No         | 3<br>3<br>5 L<br>E1<br>F-E, S-E |
| IATA:<br>Hazard label(s)   | 3<br>3                          |

# 14.4. Packing group

IATA Excepted Quantity

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

# 14.5. Environmental hazards

ADR: Not regulated
RID: Not regulated
IMDG: no marine pollutant
IATA: Not regulated

E1

# 14.6. Special precautions for user

ADR:

Special Provisions: 163, 650, 367

Note: 2.2.3.1.5.1: n. a. < 450 L

RID:

Special Provisions: 163, 650, 367

IMDG:

Special Provisions: 163, 223, 367, 955

IATA:

Special Provisions: A3, A72, A192

ERG Code 3L

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### 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 -               |  | 3.<br>28.<br>29.<br>40.                   |
| Bisphenol A diglycidyl ether<br>1675-54-3 |  | 75.                                       |
| Methyl methacrylate<br>80-62-6            |  | 75.                                       |
| Maleic anhydride<br>108-31-6              |  | 75.                                       |

| Chemical name                             | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH<br>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

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

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 37.0 % acc. reg. 2004/42/EG (Decopaint): 533 g/L

### National regulations:

Denmark:

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| Chemical name                | Denmark - MAL                     |
|------------------------------|-----------------------------------|
| n-Butyl acetate              | 14 m3/10 g substance MAL factor   |
| 123-86-4                     | >0 % by weight [1]                |
| Bisphenol A diglycidyl ether | 0 m3/10 g substance MAL factor    |
| 1675-54-3                    | >=1.0 % by weight [5]             |
| Quartz                       | 0 m3/10 g substance MAL factor    |
| 14808-60-7                   | 0.1 mg/m³ Limit Value respirable  |
|                              | >=0.1 - 2 % by weight [3]         |
|                              | >=1 - 10 % by weight [3]          |
|                              | >=10 % by weight [6]              |
|                              | >=2 % by weight [6]               |
| Methyl methacrylate          | 46 m3/10 g substance MAL factor   |
| 80-62-6                      | >=1.0 - 5.0 % by weight [3]       |
|                              | >=5.0 % by weight [5]             |
| Maleic anhydride             | 7500 m3/10 g substance MAL factor |
| 108-31-6                     | 0.1 ppm Limit Value               |
|                              | >=1 % by weight [5]               |

#### Germany:

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

| Chemical name   | WGK Classification (AwSV) | ID number |
|---|---------------------------|-----------|
| n-Butyl acetate<br>123-86-4                                     | 1                         | 42        |
| xylene (reaction product of xylene and ethylbenzene) -          | 2                         | 206       |
| hydrocarbons, C9, aromats<br>-                                  | 2                         | -         |
| Bisphenol A diglycidyl ether<br>1675-54-3                       | 1                         | -         |
| Fatty acids, C14-18 and C16-18-unsaturated, maleated 85711-46-2 | 1                         | 8839      |
| Quartz<br>14808-60-7  | nwg                       | 849       |
| Methyl methacrylate<br>80-62-6                                  | 1                         | 154       |
| Maleic anhydride<br>108-31-6                                    | 1                         | 261       |

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

TA Luft (German Air Pollution Control Regulation):

total dust incl. fine dust (digit 5.2.1): <5% inorg. subst. dust (digit 5.2.2) class III: <5% org. substances (Ziffer 5.2.5): 25-30% org. subst. dust (digit 5.2.5): <5%

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org. subst. (digit 5.2.5) class I: 10 - 15%

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

#### France:

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

| Chemical name                  | French RG number |
|--------------------------------|------------------|
| n-Butyl acetate<br>123-86-4    | RG 84            |
| hydrocarbons, C9, aromats<br>- | RG 84            |
| Quartz<br>14808-60-7           | RG 25            |
| Methyl methacrylate<br>80-62-6 | RG 65,RG 82      |
| Maleic anhydride<br>108-31-6   | RG 66            |

| 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 25 - Conditions resulting from inhalation of mineral dusts containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite, or coal.

RG 65 - Allergic eczema

RG 66 - Occupational rhinitis and asthma

RG 82 - Conditions caused by methyl methacrylate

RG 84 - Occupational conditions caused by liquid organic solvents

### Netherlands:

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

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

Austria:

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Flammable Liquids Regulations, VbF: Flammable liquids: All

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 36.8 %

#### **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**

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

EUH071 - Corrosive to the respiratory tract

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H372 - Causes damage to organs through prolonged or repeated exposure

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H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic 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 merchandises 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

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 |

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| Acute inhalation toxicity - dust/mist | Calculation method |
|---------------------------------------|--------------------|
| Skin corrosion/irritation             | Calculation method |
| Serious eye damage/eye irritation     | Calculation method |
| Respiratory sensitization             | Calculation method |
| Mutagenicity                          | Calculation method |
| Carcinogenicity                       | Calculation method |
| Reproductive toxicity                 | 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

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

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**