# Safety data sheet

**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 06.02.2025 Version: 48 (replaces version 47) Revision: 06.02.2025

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

· **1.1 Product identifier**

· **Trade name: ACRATON HS-U**

· **Article number:** C8-1
· **UFI:** 7FPC-V12K-G002-HA50
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU19 Building and construction work
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· **Product category** PC9a Coatings and paints, thinners, paint removers
· **Process category**
PROC7 Industrial spraying
PROC10 Roller application or brushing
PROC19 Manual activities involving hand contact
PROC13 Treatment of articles by dipping and pouring
· **Application of the substance / the mixture** solvent based, two component epoxy coating base

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Zandleven Coatings B.V.
Snekertrekweg 57-59, 8912 AA Leeuwarden, Netherlands
Tel: +31 58 2129545 Fax: +31 58 2155996
E-mail: info@zandleven.com Internet: www.zandleven.com

· **Further information obtainable from:** R&D department: sds@zandleven.com
· **1.4 Emergency telephone number:**
Nationaal Vergiftigingen Informatie
+31 (0)88 755 8000
ORFILA (INRS) : + 33 (0)1 45 42 59 59
Centres Antipoison et de Toxicovigilance
ANGERS: 02 41 48 21 21
BORDEAUX: 05 56 96 40 80
LILLE: 0800 59 59 59
LYON: 04 72 11 69 11
MARSEILLE: 04 91 75 25 25
NANCY: 03 83 22 50 50
PARIS: 01 40 05 48 48
STRASBOURG: 03 88 37 37 37
TOULOUSE: 05 61 77 74 47
Giftnotruf der Charité, Berlin: 030/19240
Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240
Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240
Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730
Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240
Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240
Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240
Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240
Supplier
+31 (0)58 2677590 (during office hours)

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

| | |
|---|---|
| Flam. Liq. 3 | H226 Flammable liquid and vapour. |
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |

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

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**
bis[4-(2,3-epoxypropoxy)phenyl]propane
bisphenol-A epoxy resin (Mw 700-1100)
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol
· **Hazard statements**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P273 | Avoid release to the environment. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· **Additional information:**
EUH205 Contains epoxy constituents. May produce an allergic reaction.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

| · **vPvB:** | |
|---|---|
| 68512-30-1 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol |

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

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**
Percentages of the components are expressed as a percentage by weight

| | | |
|---|---|---|
| CAS: 1675-54-3<br>EINECS: 216-823-5<br>Index number: 603-073-00-2<br>Reg.nr.: 01-2119456619-26 | bis[4-(2,3-epoxypropoxy)phenyl]propane<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317<br>Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %<br>Skin Irrit. 2; H315: C ≥ 5 % | 10-25% |

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| | | |
|---|---|---|
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Index number: 601-022-00-9<br>Reg.nr.: 01-2119488216-32 | xylene<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 2.5-10% |
| CAS: 25068-38-6<br>NLP: 500-033-5<br>Index number: 603-074-00-8 | bisphenol-A epoxy resin (Mw 700-1100)<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205<br>Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %<br>Skin Irrit. 2; H315: C ≥ 5 % | 2.5-10% |
| CAS: 68512-30-1<br>EINECS: 270-966-8<br>Reg.nr.: 01-2119555274-38 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol<br>Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412<br>vPvB | 2.5-10% |
| CAS: 100-41-4<br>EINECS: 202-849-4<br>Index number: 601-023-00-4<br>Reg.nr.: 01-2119489370-35 | ethylbenzene<br>Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412 | 1-2.5% |
| CAS: 78-83-1<br>EINECS: 201-148-0<br>Index number: 603-108-00-1<br>Reg.nr.: 01-2119484609-23 | butanol<br>Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | 1-2.5% |
| CAS: 1314-13-2<br>EINECS: 215-222-5<br>Index number: 030-013-00-7<br>Reg.nr.: 01-2119463881-32 | Zinc oxide<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | <1% |

· **SVHC**

| | |
|---|---|
| 68512-30-1 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** No special measures required.



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## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store material in original, well-closed packages in a cool, well-ventilated area according to local regulations.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep container tightly sealed.
· **Recommended storage temperature:** 5 - 30 °C
· **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **1330-20-7 xylene** | |
| IOELV | Short-term value: 442 mg/m³, 100 ppm<br>Long-term value: 221 mg/m³, 50 ppm<br>Skin |
| **100-41-4 ethylbenzene** | |
| IOELV | Short-term value: 884 mg/m³, 200 ppm<br>Long-term value: 442 mg/m³, 100 ppm<br>Skin |

| · **DNEL (Derived No Effect Level) for workers:** | | |
|---|---|---|
| **1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane** | | |
| Dermal | Long-term - systemic effects, worker | 0.75 mg/kg bw/day (worker) |
| Inhalative | Long-term - systemic effects, worker | 4.93 mg/m³ (worker) |
| **1330-20-7 xylene** | | |
| Dermal | Long-term - systemic effects, worker | 212 mg/kg bw/day (worker) |
| Inhalative | Acute - systemic effects, worker | 442 mg/m³ (worker) |
| | Acute - local effects, worker | 442 mg/m³ (worker) |
| | Long-term - systemic effects, worker | 221 mg/m³ (worker) |

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| | | |
|---|---|---|
| | Long-term - local effects, worker | 221 mg/m³ (worker) |
| **25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)** | | |
| Dermal | Acute - systemic effects, worker | 8.33 mg/kg bw/day (worker) |
| | Long-term - systemic effects, worker | 8.33 mg/kg bw/day (worker) |
| Inhalative | Acute - systemic effects, worker | 12.25 mg/m³ (worker) |
| | Long-term - systemic effects, worker | 12.25 mg/m³ (worker) |
| **68512-30-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol** | | |
| Dermal | Long-term - systemic effects, worker | 3.5 mg/kg bw/day (worker) |
| Inhalative | Long-term - systemic effects, worker | 1.41 mg/m³ (worker) |
| **100-41-4 ethylbenzene** | | |
| Dermal | Long-term - systemic effects, worker | 180 mg/kg bw/day (worker) |
| Inhalative | Acute - local effects, worker | 293 mg/m³ (worker) |
| | Long-term - systemic effects, worker | 77 mg/m³ (worker) |
| **78-83-1 butanol** | | |
| Inhalative | Long-term - local effects, worker | 310 mg/m³ (worker) |
| **1314-13-2 Zinc oxide** | | |
| Dermal | Long-term - systemic effects, worker | 83 mg/kg bw/day (worker) |
| Inhalative | Long-term - systemic effects, worker | 5 mg/m³ (worker) |

· **DNEL (Derived No Effect Level) for the general polulation:**

| | | |
|---|---|---|
| **1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane** | | |
| Oral | Long-term - systemic effects, general population | 0.5 mg/kg bw/day (general population) |
| Dermal | Long-term - systemic effects, general population | 0.0893 mg/kg bw/day (general population) |
| Inhalative | Long-term - systemic effects, general population | 0.87 mg/m³ (general population) |
| **1330-20-7 xylene** | | |
| Oral | Long-term - systemic effects, general population | 12.5 mg/kg bw/day (general population) |
| Dermal | Long-term - systemic effects, general population | 125 mg/kg bw/day (general population) |
| Inhalative | Acute - systemic effects, general population | 260 mg/m³ (general population) |
| | Acute - local effects, general population | 260 mg/m³ (general population) |
| | Long-term - systemic effects, general population | 65.3 mg/m³ (general population) |
| | Long-term - local effects, general population | 65.3 mg/m³ (general population) |
| **25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)** | | |
| Oral | Acute - systemic effects, general population | 0.75 mg/kg bw/day (general population) |
| | Long-term - systemic effects, general population | 0.75 mg/kg bw/day (general population) |
| Dermal | Acute - systemic effects, general polulation | 3.571 mg/kg bw/day (general population) |
| | Long-term - systemic effects, general population | 3.571 mg/kg bw/day (general population) |
| **68512-30-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol** | | |
| Oral | Long-term - systemic effects, general population | 0.2 mg/kg bw/day (general population) |
| Dermal | Long-term - systemic effects, general population | 1.67 mg/kg bw/day (general population) |
| Inhalative | Long-term - systemic effects, general population | 0.348 mg/m³ (general population) |
| **100-41-4 ethylbenzene** | | |
| Oral | Long-term - systemic effects, general population | 1.6 mg/kg bw/day (general population) |
| Inhalative | Long-term - systemic effects, general population | 15 mg/m³ (general population) |
| **78-83-1 butanol** | | |
| Inhalative | Long-term - local effects, general population | 55 mg/m³ (general population) |
| **1314-13-2 Zinc oxide** | | |
| Oral | Long-term - systemic effects, general population | 0.83 mg/kg bw/day (general population) |
| Dermal | Long-term - systemic effects, general population | 83 mg/kg bw/day (general population) |
| Inhalative | Long-term - systemic effects, general population | 2.5 mg/m³ (general population) |

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| · **PNEC (Predicted No Effect Concentration) values:** | |
|---|---|
| **1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane** | |
| Aquatic compartment - freshwater | 0.006 mg/L (freshwater) |
| Aquatic compartment - marine water | 0.001 mg/L (marine water) |
| Aquatic compartment - water, intermittent releases | 0.018 mg/L (intermittent release water) |
| Aquatic compartment - sediment in freshwater | 0.341 mg/kg sed dw (sediment fresh water) |
| Aquatic compartment - sediment in marine water | 0.034 mg/kg sed dw (sediment marine water) |
| Terrestrial compartment - soil | 0.065 mg/kg dw (soil) |
| Sewage treatment plant | 10 mg/L (sewage treatment plant) |
| Oral secondary poisoning | 11 mg/kg food (food sec poisoning) |
| **1330-20-7 xylene** | |
| Aquatic compartment - freshwater | 0.327 mg/L (freshwater) |
| Aquatic compartment - marine water | 0.327 mg/L (marine water) |
| Aquatic compartment - water, intermittent releases | 0.327 mg/L (intermittent release water) |
| Aquatic compartment - sediment in freshwater | 12.46 mg/kg sed dw (sediment fresh water) |
| Aquatic compartment - sediment in marine water | 12.46 mg/kg sed dw (sediment marine water) |
| Terrestrial compartment - soil | 2.31 mg/kg dw (soil) |
| Sewage treatment plant | 6.58 mg/L (sewage treatment plant) |
| **25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)** | |
| Aquatic compartment - freshwater | 0.006 mg/L (not specified) |
| Aquatic compartment - marine water | 0.0006 mg/L (not specified) |
| Aquatic compartment - water, intermittent releases | 0.018 mg/L (not specified) |
| Aquatic compartment - sediment in freshwater | 0.996 mg/kg sed dw (not specified) |
| Aquatic compartment - sediment in marine water | 0.0996 mg/kg sed dw (not specified) |
| Terrestrial compartment - soil | 0.196 mg/kg dw (not specified) |
| Sewage treatment plant | 10 mg/L (not specified) |
| Oral secondary poisoning | 11 mg/kg food (not specified) |
| **68512-30-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol** | |
| Aquatic compartment - freshwater | 0.0014 mg/L (freshwater) |
| Aquatic compartment - marine water | 0.00014 mg/L (marine water) |
| Aquatic compartment - water, intermittent releases | 0.014 mg/L (intermittent release water) |
| Aquatic compartment - sediment in freshwater | 1,064 mg/kg sed dw (sediment fresh water) |
| Aquatic compartment - sediment in marine water | 106.4 mg/kg sed dw (sediment marine water) |
| Terrestrial compartment - soil | 212.2 mg/kg dw (soil) |
| Sewage treatment plant | 2.4 mg/L (sewage treatment plant) |
| Oral secondary poisoning | 8.89 mg/kg food (food sec poisoning) |
| **100-41-4 ethylbenzene** | |
| Aquatic compartment - freshwater | 0.1 mg/L (not specified) |
| Aquatic compartment - marine water | 0.01 mg/L (not specified) |
| Aquatic compartment - water, intermittent releases | 0.1 mg/L (not specified) |
| Aquatic compartment - sediment in freshwater | 13.7 mg/kg sed dw (not specified) |
| Aquatic compartment - sediment in marine water | 1.37 mg/kg sed dw (not specified) |
| Terrestrial compartment - soil | 2.68 mg/kg dw (not specified) |
| Sewage treatment plant | 9.6 mg/L (not specified) |
| Oral secondary poisoning | 0.02 mg/kg food (not specified) |
| **78-83-1 butanol** | |
| Aquatic compartment - freshwater | 0.4 mg/L (freshwater) |
| Aquatic compartment - marine water | 0.04 mg/L (marine water) |
| Aquatic compartment - water, intermittent releases | 11 mg/L (intermittent release water) |
| Aquatic compartment - sediment in freshwater | 1.52 mg/kg sed dw (sediment fresh water) |

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| | |
|---|---|
| Aquatic compartment - sediment in marine water | 0.152 mg/kg sed dw (sediment marine water) |
| Terrestrial compartment - soil | 0.0699 mg/kg dw (not specified) |
| Sewage treatment plant | 10 mg/L (sewage treatment plant) |
| **1314-13-2 Zinc oxide** | |
| Aquatic compartment - freshwater | 0.0206 mg/L (not specified) |
| Aquatic compartment - marine water | 0.0061 mg/L (not specified) |
| Aquatic compartment - sediment in freshwater | 117.8 mg/kg sed dw (not specified) |
| Aquatic compartment - sediment in marine water | 56.5 mg/kg sed dw (not specified) |
| Terrestrial compartment - soil | 35.6 mg/kg dw (not specified) |
| Sewage treatment plant | 0.1 mg/L (not specified) |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne
contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
· **Appropriate engineering controls** No further data; see section 7.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures:**
Provide readily accessible eye wash stations and safety showers.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If
workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed
respirator complying with an approved standard if a risk assessment indicates this is necessary.
For organic vapors and solvents type of filter A1 or A2, for dust type of filter P (according to EN 140)
· **Hand protection**

Protective gloves

Chemical resistant gloves (EN 374)
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
PVA gloves
· **Penetration time of glove material**
KCL Vitoject 890
breakthrough time > 480 min.
thickness: 0,7 mm

at limited contact
KCL Camatril 730
breakthrough time 120 min.
thickness: 0,4 mm

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The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Not suitable are gloves made of the following materials:**
Neoprene gloves
Disposables

· **Eye/face protection**

Tightly sealed goggles

Safety glasses according to EN 166 or equivalent

· **Body protection:**
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved before the product is used by a specialist.
If there is a risk of ignition by static electricity, anti-static protective clothing should be worn. For the best protection against static discharge, clothing should consist of anti-static overalls, boots and gloves.
For further information on materials and design requirements and test methods consult the European standard EN 1149.

· **Environmental exposure controls**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## *SECTION 9: Physical and chemical properties*

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Liquid |
| · **Colour:** | According to product specification |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **Melting point/freezing point:** | Undetermined. |
| · **Boiling point or initial boiling point and boiling range** | 137-143 °C (1330-20-7 xylene) |
| · **Flammability** | Flammable. |
| · **Lower and upper explosion limit** | |
| · **Lower:** | 1.1 Vol % |
| · **Upper:** | 7 Vol % |
| · **Flash point:** | 33 °C (1330-20-7 xylene) |
| · **Auto-ignition temperature:** | 500 °C (1330-20-7 xylene) |
| · **Decomposition temperature:** | Not determined. |
| · **pH** | Not determined. |
| · **Viscosity:** | |
| · **Kinematic viscosity** | at 40 °C: > 20,5 mm²/s |
| · **Dynamic at 20 °C:** | 2,500 mPas |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined. |
| · **Vapour pressure at 20 °C:** | 6.7-8.2 hPa |
| · **Density and/or relative density** | |
| · **Density at 20 °C:** | >1.67-1.68 g/cm³ |
| · **Relative density** | Not determined. |
| · **Vapour density** | Not determined. |
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | Fluid |

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| | |
|---|---|
| · **Important information on protection of health and environment, and on safety.** | |
| · **Ignition temperature:** | Product is not selfigniting. |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined. |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Void |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Flammable liquid and vapour. |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## *SECTION 10: Stability and reactivity*

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## *SECTION 11: Toxicological information*

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

| · **LD/LC50 values relevant for classification:** | | |
|---|---|---|
| **1330-20-7 xylene** | | |
| Oral | LD50 | 3,523 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |
| **25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)** | | |
| Oral | LD50 | 30,000 mg/kg (rat) |
| Dermal | LD50 | >1,200 mg/kg (rat) |
| | | >2,000 mg/kg (rabbit) |
| **68512-30-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol** | | |
| Oral | LD50 | >2,000 mg/kg (rat) (OECD 423) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402) |
| Inhalative | LC50/4 h | >4.9 mg/l (rat) (OECD 403) |

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| **100-41-4 ethylbenzene** | | |
|---|---|---|
| Oral | LD50 | 3,500 mg/kg (rat) |
| Dermal | LD50 | 17,800 mg/kg (rabbit) |
| **78-83-1 butanol** | | |
| Oral | LD50 | 2,460 mg/kg (rat) |
| Dermal | LD50 | 3,400 mg/kg (rabbit) |
| **1314-13-2 Zinc oxide** | | |
| Oral | LD50 | >5,000 mg/kg (rat) |

· **Primary irritant effect:**
· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** May cause an allergic skin reaction.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

| · **Endocrine disrupting properties** |
|---|
| None of the ingredients is listed. |

## *SECTION 12: Ecological information*

· **12.1 Toxicity**

| · **Aquatic toxicity:** | |
|---|---|
| **1330-20-7 xylene** | |
| EC50/72 h | 2.2 mg/l (algae) |
| EC50/48 h | >3.4 mg/l (Ceriodaphnia dubia) |
| LC50/96 h | 2.6 mg/l (Oncorhynchus mykiss) |
| LC50/24 h | 1 mg/l (Daphnia magna) |
| **25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)** | |
| EC50/48 h | 2.1 mg/l (Daphnia magna) |
| LC50/96 h | 1.3 mg/l (Oncorhynchus mykiss) |
| LC50/72 h | >11 mg/l (algae) |
| **100-41-4 ethylbenzene** | |
| EC50/72 h | 3.6-4.2 mg/l (algae) |
| EC50/24 h | 2.2 mg/l (Daphnia magna) |
| LC50/96 h | 4.2 mg/l (Oncorhynchus mykiss) |
| **78-83-1 butanol** | |
| LC50/96 h | 1.33-2.03 mg/l (fish) |
| LC50/48 h | 1.03-1.19 mg/l (crustaceans) |
| **1314-13-2 Zinc oxide** | |
| EC50/72 h | 0.21 mg/l (algae) |
| EC50/48 h | 0.67 mg/l (Ceriodaphnia dubia) |

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

| · **vPvB:** | |
|---|---|
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· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

| · **European waste catalogue** | |
|---|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| HP3 | Flammable |
| HP4 | Irritant - skin irritation and eye damage |
| HP13 | Sensitising |
| HP14 | Ecotoxic |

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

Transport in accordance with ADR/RID, IMDG and ICAO/IATA.

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR/RID/ADN, IMDG** | Void |
| · **IATA** | UN1263 |
| · **14.2 UN proper shipping name** | |
| · **ADR/RID/ADN, IMDG** | Void |
| · **IATA** | PAINT |
| · **14.3 Transport hazard class(es)** | |
| · **ADR/RID/ADN, ADN, IMDG** | |
| · **Class** | Void |
| · **IATA** | |


| | |
|---|---|
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **14.4 Packing group** | |
| · **ADR/RID/ADN, IMDG** | Void |
| · **IATA** | III |

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| | |
|---|---|
| · **14.5 Environmental hazards:** | |
| · **Marine pollutant:** | Yes |
| · **14.6 Special precautions for user** | Not applicable. |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **Transport/Additional information:** | |
| · **ADR/RID/ADN** | |
| · **Remarks:** | Up to 450 litre exempted according to ADR 2.2.3.1.5. |
| · **IMDG** | |
| · **Remarks:** | Up to 450 litre: Transport in accordance with Packs 2.3.2.5 of the IMDG Code. |
| · **IATA** | |
| · **Remarks:** | The "viscosity exemption" provisions do NOT apply to air transport. |
| · **UN "Model Regulation":** | Void |

## *SECTION 15: Regulatory information*

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

| | | |
|---|---|---|
| 108-88-3 | toluene | 3 |

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

| | | |
|---|---|---|
| 108-88-3 | toluene | 3 |

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

| | |
|---|---|
| 68512-30-1 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol |

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* 

## *SECTION 16: Other information*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Classification according to Regulation (EC) No 1272/2008**
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Product safety department.
· **Contact:** J. Dijkstra
· **Date of previous version:** 11.06.2024
· **Version number of previous version:** 47
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· **Sources**
- ECHA European Chemical Agency - http://echa.europa.eu/information-on-chemicals
- SDS of raw materials supplied by producer/supplier.
· *** Data compared to the previous version altered.**