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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier
· Trade name: ACRATON HS-400
<ul> <li>Article number: C27-1</li> <li>UFI: QCKC-N179-F008-Q15P</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against</li> <li>Sector of Use</li> <li>SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU19 Building and construction work</li> <li>SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)</li> <li>Product category PC9a Coatings and paints, thinners, paint removers</li> <li>Process category</li> <li>PROC7 Industrial spraying</li> <li>PROC10 Roller application or brushing</li> <li>PROC19 Manual activities involving hand contact</li> <li>PROC13 Treatment of articles by dipping and pouring</li> <li>Application of the substance / the mixture solvent based, two component epoxy coating base</li> </ul>
• 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
<ul> <li>Further information obtainable from: R&amp;D department: sds@zandleven.com</li> <li>1.4 Emergency telephone number: Nationaal Vergiftigingen Informatie</li> <li>+31 (0)88 755 8000</li> <li>ORFILA (INRS) : + 33 (0)1 45 42 59 59</li> <li>Centres Antipoison et de Toxicovigilance</li> <li>ANGERS: 02 41 48 21 21</li> <li>BORDEAUX: 05 56 96 40 80</li> <li>LILLE: 0800 59 59 59</li> <li>LYON: 04 72 11 69 11</li> <li>MARSEILLE: 04 91 75 25 25</li> <li>NANCY: 03 83 22 50 50</li> <li>PARIS: 01 40 05 48 48</li> <li>STRASBOURG: 03 88 37 37 37</li> <li>TOULOUSE: 05 61 77 74 47</li> <li>Giftnofrud fer Charité, Berlin: 030/19240</li> <li>Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240</li> <li>Informationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240</li> <li>Informationszentrum egen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240</li> <li>Giftinotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730</li> <li>Informationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240</li> <li>Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240</li> <li>Vergiftungs-Informationszentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240</li> <li>Giftinotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240</li> <li>Supplier</li> <li>+31 (0)58 2677590 (during office hours)</li> </ul>
SECTION 2: Hazards identification 2.1 Classification of the substance or mixture

#### 2.1 Classification of the substance or mixture

 $^{\rm \cdot}$  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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(Contd. of page 1) 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	bis[4-(2,3-epoxypropoxy)phenyl]propane	10-25%
EINECS: 216-823-5	Aquatic Chronic 2, H411; 🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
Index number: 603-073-00-2		
Reg.nr.: 01-2119456619-26	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %	
č	Skin Irrit. 2; H315: C ≥ 5 %	
	,	<u> </u>

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

· 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

1330-20-7	' xylene		
	nort-term value: 442 mg/m³, 100 ppm ong-term value: 221 mg/m³, 50 ppm		
	kin		
100-41-4	ethylbenzene		
Lc	nort-term value: 884 mg/m³, 200 ppm ong-term value: 442 mg/m³, 100 ppm kin		
DNEL (De	rived No Effect Level) for workers:		
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]pr	opane	
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/m <sup>3</sup> (worker)	
	,		

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	Long-term - local effects, worker	221 mg/m <sup>3</sup>	(worker)
	6 bisphenol-A epoxy resin (Mw 700	•	
	-		bw/day (worker)
	Long-term - systemic effects, worker		
	Acute - systemic effects, worker	12.25 mg/n	
	Long-term - systemic effects, worker	-	. ,
			ucts of 2-phenylpropene and phenol
	Long-term - systemic effects, worker		,
	Long-term - systemic effects, worker	1.41 mg/m <sup>3</sup>	<sup>s</sup> (worker)
	thylbenzene		
	Long-term - systemic effects, worker		
		293 mg/m <sup>3</sup>	. ,
	Long-term - systemic effects, worker	77 mg/m³ (	worker)
78-83-1 bu			
	-	310 mg/m <sup>3</sup>	(worker)
	Zinc oxide		
	Long-term - systemic effects, worker		
Inhalative	Long-term - systemic effects, worker	5 mg/m³ (w	orker)
DNEL (Der	rived No Effect Level) for the genera	al polulatio	n:
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]pro	opane	
Oral I	Long-term - systemic effects, general	population	0.5 mg/kg bw/day (general population)
Dermal I	Long-term - systemic effects, general	population	0.0893 mg/kg bw/day (general population)
nhalative	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 pop	ulation	260 mg/m <sup>3</sup> (general population)
	Acute - local effects, general populati	on	260 mg/m³ (general population)
	Long-term - systemic effects, general	population	65.3 mg/m³ (general population)
	Long-term - local effects, general pop		65.3 mg/m³ (general population)
	6 bisphenol-A epoxy resin (Mw 700-		
	Acute - systemic effects, general pop	-	0.75 mg/kg bw/day (general population)
			0.75 mg/kg bw/day (general population)
	Acute - systemic effects, general polu		3.571 mg/kg bw/day (general population)
			3.571 mg/kg bw/day (general population)
			ucts of 2-phenylpropene and phenol
		-	0.2 mg/kg bw/day (general population)
			1.67 mg/kg bw/day (general population)
	Long-term - systemic effects, general		,
	thylbenzene	1	
	-	population	1.6 mg/kg bw/day (general population)
	Long-term - systemic effects, general		
78-83-1 bu		repaidion	
	Long-term - local effects, general pop	oulation	55 mg/m³ (general population)
	Zinc oxide		
		population	0.83 mg/kg bw/day (general population)
Oral I			83 mg/kg bw/day (general population)

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PNEC (Predicted No Effect Concentration) value	(Contd. of pa
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]prop	
Aquatic compartment - freshwater	0.006 mg/L (freshwater)
Aquatic compartment - marine water	0.001 mg/L (marine water)
Aquatic compartment - water, intermittent releases	
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	
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 700-11	
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 react	ion 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	,
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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(Contd. of page 7) 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.

### SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	roperties
General Information	
· Physical state	Liquid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	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.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	Not determined.
Vapour pressure at 20 °C:	6.7-8.2 hPa
Density and/or relative density	
<sup>·</sup> 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**

- $^{\circ}$  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.

1330-20-	7 xylene	
Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
25068-38	3-6 bisphen	ol-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 Oligome	erisation 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	e LC50/4 h	>4.9 mg/l (rat) (OECD 403)
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100-41-4	ethylben	zene	
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
78-83-1 b	outanol		
Oral	LD50	2,460 mg/kg (rat)	
Dermal	LD50	3,400 mg/kg (rabbit)	
1314-13-2	2 Zinc oxi	ide	
Oral	LD50	>5,000 mg/kg (rat)	
Respirate Germ cel Carcinog Reprodu STOT-sir STOT-rej Aspiratio	ory or ski II mutage genicity Ba Inctive toxi ngle expo peated ex on hazard	age/irritation Causes serious eye irritation. in sensitisation May cause an allergic skin reaction. enicity Based on available data, the classification criteria are not met. assed on available data, the classification criteria are not met. icity Based on available data, the classification criteria are not met. psure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteria are not met. (cposure Based on available data, the classification criteri	
11 2 Info	rmation o		
		ting properties	

# SECTION 12: Ecological information

· 12.1 Toxicity

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)	
<ul> <li>12.2 Persistence and degradability No further relevant information available.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>12.5 Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> </ul>	
· PBT: Not applicable. · vPvB:	
68512-30-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	
	(Contd. on page 1

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- (Contd. of page 10) • **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 informa	ation	
Transport in accordance with ADR/RID, I	MDG and ICAO/IATA.	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG · IATA	Void UN1263	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR/RID/ADN, IMDG</li> <li>IATA</li> </ul>	Void PAINT	
· 14.3 Transport hazard class(es)		
· ADR/RID/ADN, ADN, IMDG · Class	Void	
·IATA		
· Class	3 Flammable liquids.	
Label	3	
<ul> <li>14.4 Packing group</li> <li>ADR/RID/ADN, IMDG</li> <li>IATA</li> </ul>	Void III	
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	(Contd. of page 1
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Yes
14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Maritime transport in bulk accordininstruments</li> </ul>	ng to IMO 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 ail 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

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

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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