Safety data sheet

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

Printing date 07.02.2025 Version: 6 (replaces version 5) 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: 2 V 64 VERHARDER**

· **Article number:** 2V64
· **UFI:** 4FDC-Q1KW-A003-2FY7
· **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 hardener

· **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)

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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.

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· **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 statements**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
· **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.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.

· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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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: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene 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	10-25%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	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	2.5-10%
CAS: 2579-20-6 EINECS: 219-941-5 Reg.nr.: 01-2119543741-41	1,3-Cyclohexanedimethanamine Acute Tox. 4, H302	1-10%
CAS: 108-46-3 EINECS: 203-585-2 Index number: 604-010-00-1	resorcinol Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2.5%

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

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:** 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.

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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.
· **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:**
Dilute with plenty of water.
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.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Use only in well ventilated areas.
· **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.

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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 Long-term value: 221 mg/m³, 50 ppm Skin
100-41-4 ethylbenzene	
IOELV	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin
108-46-3 resorcinol	
IOELV	Long-term value: 45 mg/m³, 10 ppm Skin

· **DNEL (Derived No Effect Level) for workers:**		
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)
	Long-term - local effects, worker	221 mg/m³ (worker)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Dermal	Acute - systemic effects, worker	0.6 mg/kg bw/day (worker)
	Long-term - systemic effects, worker	0.15 mg/kg bw/day (worker)
Inhalative	Acute - systemic effects, worker	2.1 mg/m³ (worker)
	Long-term - systemic effects, worker	0.53 mg/m³ (worker)
67-63-0 propan-2-ol		
Dermal	Long-term - systemic effects, worker	888 mg/kg bw/day (human)
Inhalative	Acute - systemic effects, worker	1,000 mg/m³ (human)
	Long-term - systemic effects, worker	500 mg/m³ (human)
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)
2579-20-6 1,3-Cyclohexanedimethanamine		
Dermal	Acute - systemic effects, worker	25.2 mg/kg bw/day (human)
	Long-term - systemic effects, worker	0.1 mg/kg bw/day (worker)
Inhalative	Acute - systemic effects, worker	25.2 mg/m³ (worker)
	Long-term - systemic effects, worker	0.00947 mg/m³ (worker)
	Long-term - local effects, worker	0.00947 mg/m³ (human)
108-46-3 resorcinol		
Dermal	Long-term - systemic effects, worker	40 mg/kg bw/day (human)
Inhalative	Long-term - systemic effects, worker	5.6 mg/m³ (human)
	Long-term - local effects, worker	132.8 mg/m³ (human)

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

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	Long-term - systemic effects, general population	65.3 mg/m³ (general population)
	Long-term - local effects, general population	65.3 mg/m³ (general population)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Oral	Long-term - systemic effects, general population	0.075 mg/kg bw/day (general population)
Dermal	Acute - systemic effects, general polulation	0.075 mg/kg bw/day (general population)
	Long-term - systemic effects, general population	0.075 mg/kg bw/day (general population)
Inhalative	Acute - systemic effects, general population	0.13 mg/m³ (general population)
	Long-term - systemic effects, general population	0.13 mg/m³ (general population)
67-63-0 propan-2-ol		
Oral	Acute - systemic effects, general population	51 mg/kg bw/day (human)
	Long-term - systemic effects, general population	26 mg/kg bw/day (human)
Dermal	Long-term - systemic effects, general population	319 mg/kg bw/day (human)
Inhalative	Acute - systemic effects, general population	178 mg/m³ (human)
	Long-term - systemic effects, general population	89 mg/m³ (human)
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)
108-46-3 resorcinol		
Oral	Long-term - systemic effects, general population	0.4 mg/kg bw/day (human)
Dermal	Long-term - systemic effects, general population	20 mg/kg bw/day (human)
Inhalative	Long-term - systemic effects, general population	1.39 mg/m³ (human)
	Long-term - local effects, general population	33 mg/m³ (human)

· **PNEC (Predicted No Effect Concentration) values:**

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)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	
Aquatic compartment - freshwater	0.046 mg/L (freshwater)
Aquatic compartment - marine water	0.005 mg/L (marine water)
Aquatic compartment - water, intermittent releases	0.46 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	0.262 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.025 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.025 mg/kg dw (soil)
Sewage treatment plant	0.2 mg/L (sewage treatment plant)
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)
2579-20-6 1,3-Cyclohexanedimethanamine	
Aquatic compartment - freshwater	0.033 mg/L (freshwater)

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Aquatic compartment - marine water	0.003 mg/L (marine water)
Aquatic compartment - water, intermittent releases	0.331 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	0.218 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.022 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.024 mg/kg dw (soil)
Sewage treatment plant	10 mg/L (sewage treatment plant)

· **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:**
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
· **Penetration time of glove material**
KCL Vitoject 890
breakthrough time > 480 min.
thickness: 0,7 mm

at limited contact
KCL Camatril 730
breakthrough time 30 min.
thickness: 0,4 mm
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:** All other materials

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· **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 % (1330-20-7 xylene)
· **Upper:**	7 Vol % (1330-20-7 xylene)
· **Flash point:**	30 °C
· **Auto-ignition temperature:**	500 °C (1330-20-7 xylene)
· **Decomposition temperature:**	Not determined.
· **pH at 20 °C**	10.5
· **Viscosity:**	
· **Kinematic viscosity**	at 40 °C: > 20,5 mm²/s
· **Dynamic at 20 °C:**	1,750 mPas
· **Solubility**	
· **water:**	Fully miscible.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure at 20 °C:**	6.7-8.2 hPa (1330-20-7 xylene)
· **Density and/or relative density**	
· **Density at 20 °C:**	0.98 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **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.

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· **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.

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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)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Oral	LD50	2,169 mg/kg (rat)
67-63-0 propan-2-ol		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
108-46-3 resorcinol		
Oral	LD50	510 mg/kg (not defined) 301 mg/kg (rat)
Dermal	LD50	3,360 mg/kg (rabbit)

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· **Primary irritant effect:**
· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **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.

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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)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	
EC50/96 h	718 mg/l (Palaemonetes vulgaris (grass shrimp))
EC50/72 h	84 mg/l (algae)
LC50/96 h	175 mg/l (Cyprinus carpio)
LC50/24 h	249 mg/l (Cyprinus carpio)
	222 mg/l (Oncorhynchus mykiss)
67-63-0 propan-2-ol	
LC50/96 h	4.2-11.1 mg/l (fish)
LC50/48 h	1.4 mg/l (crustaceans)
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)
2579-20-6 1,3-Cyclohexanedimethanamine	
EC50/72 h	29.7-100 mg/l (aquatic algae and cyanobacteria)
EC50/48 h	33.1-65.4 mg/l (aquatic invertebrates)
LC50/96 h	130 mg/l (fish)
108-46-3 resorcinol	
EC50/72 h	97 mg/l (aquatic algae and cyanobacteria)
EC50/24 h	4.7 mg/l (aquatic invertebrates)
LC50/96 h	32.7-42.2 mg/l (aquatic invertebrates)
	40-109 mg/l (fish)
LC50/48 h	1-78 mg/l (aquatic invertebrates)
	78 mg/l (crustaceans)
LC50/24 h	169.5 mg/l (aquatic invertebrates)
NOEC 21 days	0.172 mg/l (aquatic invertebrates)

· **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.

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· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· **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.

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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

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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
· **14.5 Environmental hazards:**	Not applicable.

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· **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

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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

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

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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.

· **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.
· **Contact:** J. Dijkstra
· **Date of previous version:** 20.04.2023
· **Version number of previous version:** 5
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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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
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 Irrit. 2: Serious eye damage/eye irritation – Category 2
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 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.**