

Printing date 06.02.2025 Version: 26 (replaces version 25) Revision: 06.02.2025

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

· 1.1 Product identifier

Trade name: MONOPOX SF-HB

· Article number: C14-1

· UFI: YQPC-D14S-D00J-HAW6

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

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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 Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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Aquatic Chronic 2 H411 Toxic 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







GHS07



GHS02

GHS05

### · Signal word Danger

### · Hazard-determining components of labelling:

bisphenol-A epoxy resin (Mw 700-1100)

butanol

Reaction products of 1,3-BAC and 12-HSA

Octadecanoic acid, 12-hydroxy-, reaction products with hexamethylenediamine

#### **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic 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.

P303+P361+P353 IF ON ŠKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 ÎF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

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: Not applicable.

# 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: 25068-38-6	bisphenol-A epoxy resin (Mw 700-1100)	10-25%
NLP: 500-033-5 Index number: 603-074-00-8	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	
CAS: 1330-20-7	xylene	10-25%
EINECS: 215-535-7	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312;	
	ทงงจ	
CAS: 78-83-1	butanol	2.5-10%
	♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Skin Irrit. 2, H315;	
Index number: 603-108-00-1	STOT SE 3, H335-H336	
Reg.nr.: 01-2119484609-23		
	NLP: 500-033-5 Index number: 603-074-00-8 CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1	NLP: 500-033-5 Index number: 603-074-00-8 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315:

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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: 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	2.5-10%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35	1-Methoxy-2-propanol  Flam. Liq. 3, H226; STOT SE 3, H336	1-2.5%
EC number: 951-139-7 Reg.nr.: 01-2120900419-58	Reaction products of 1,3-BAC and 12-HSA  Skin Sens. 1B, H317; Aquatic Chronic 4, H413	- <1%
	Octadecanoic acid, 12-hydroxy-, reaction products with hexamethylenediamine \$STOT RE 2, H373; \left( \) Skin Sens. 1B, H317; Aquatic Chronic 4, H413	<1%
CAS: 77-99-6 Reg.nr.: 01-2119486799-10	propylidynetrimethanol  Repr. 2, H361fd	0-<1%

### 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. Then 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.

# 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). Use neutralising agent.

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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			
Lo	Short-term value: 442 mg/m³, 100 ppm .ong-term value: 221 mg/m³, 50 ppm Skin			
100-41-4	ethylbenzene			
Lo	LV Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin			
	1-Methoxy-2-propanol			
IOELV Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin				
DNEL (De	erived No Effect Level) for workers:			
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)		
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)		
78-83-1 b	utanol			
	Long-term - local effects, worker	310 mg/m³ (worker)		

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400 44 4 -	sthulb and an		(Contd. of page
	ethylbenzene	100	huldou (worker)
	Dermal Long-term - systemic effects, worker 180 mg/kg		- '
innalative	Acute - local effects, worker	293 mg/m³	,
101110	Long-term - systemic effects, worker	// mg/m³ (	worker)
	Zinc oxide	00 // 1	
	Long-term - systemic effects, worker		· , , , ,
	Long-term - systemic effects, worker	5 mg/m³ (w	orker)
	-Methoxy-2-propanol	50.0 "	
	Long-term - systemic effects, worker		,
Inhalative	Acute - local effects, worker	553.5 mg/n	• •
	Long-term - systemic effects, worker	_	• •
	noic acid, 12-hydroxy-, reaction pro		<del>_</del>
Dermal	Acute - systemic effects, worker		w/day (worker)
			w/day (worker)
Inhalative	Acute - systemic effects, worker	35.24 mg/n	· · · · · · · · · · · · · · · · · · ·
	Long-term - systemic effects, worker	35.24 mg/n	าร (worker)
	opylidynetrimethanol	10.04 "	
	Long-term - systemic effects, worker		
Inhalative	Long-term - systemic effects, worker	19.54 mg/n	n³ (worker)
· DNEL (De	rived No Effect Level) for the genera	al polulatio	n:
25068-38-	6 bisphenol-A epoxy resin (Mw 700-	-1100)	
Oral	Acute - systemic effects, general pop	ulation	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 polu	ulation	3.571 mg/kg bw/day (general population)
	Long-term - systemic effects, general	population	3.571 mg/kg bw/day (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/m³ (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	oulation	65.3 mg/m³ (general population)
78-83-1 bu	utanol		
Inhalative	Long-term - local effects, general pop	oulation	55 mg/m³ (general population)
100-41-4 e	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)
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	• •	, , ,
	I-Methoxy-2-propanol		
Oral		population	3.3 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, general population		
	Long-term - systemic effects, general		
	noic acid, 12-hydroxy-, reaction pro		- 10 1 7
Oral	Acute - systemic effects, general pop		5 mg/kg bw/day (general population)
			5 mg/kg bw/day (general population)
	Acute - systemic effects, general polu		5 mg/kg bw/day (general population)
Dermal	Tiodio Oyolonno onocio. donordi Bere		





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Inhalative Acute - systemic effects, general popular	tion 8.69 mg/m³ (general population) (Contd. of			
	pulation 8.69 mg/m³ (general population)			
77-99-6 propylidynetrimethanol	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Oral Long-term - systemic effects, general po	Long-term - systemic effects, general population 0.34 mg/kg bw/day (general population)			
Dermal Long-term - systemic effects, general po				
Inhalative Long-term - systemic effects, general po	pulation 0.58 mg/m³ (gni)			
PNEC (Predicted No Effect Concentration) value	is:			
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)			
•	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)			
1330-20-7 xylene	g/ng 1004 (not opposition)			
Aquatic compartment - freshwater	0.327 mg/L (freshwater)			
Aquatic compartment - marine water	0.327 mg/L (meshwater)			
	0.327 mg/L (intermittent release 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)			
78-83-1 butanol	5.55 mg/L (56wago troatmont plant)			
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 - water, intermittent releases  Aquatic compartment - sediment in freshwater	1.52 mg/kg sed dw (sediment fresh water)			
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)			
100-41-4 ethylbenzene	10 mg/L (30wago acatmont plant)			
Aquatic compartment - freshwater	0.1 mg/L (not specified)			
Aquatic compartment - neshwater  Aquatic compartment - marine water	0.01 mg/L (not specified)			
Aquatic compartment - marine water  Aquatic compartment - water, intermittent releases	0.1 mg/L (not specified)			
Aquatic compartment - water, intermittent releases Aquatic compartment - sediment in freshwater	13.7 mg/kg sed dw (not specified)			
Aquatic compartment - sediment in freshwater  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)			
-	0.02 mg/kg food (not specified)			
Oral secondary poisoning 1314-13-2 Zinc oxide	0.02 mg/kg 1000 (not specified)			
	0.0206 mg/L (not specified)			
Aquatic compartment - freshwater	· . ,			
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)			
107-98-2 1-Methoxy-2-propanol				





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Aquatic compartment - marine water	1 mg/L (not specified)
Aquatic compartment - water, intermittent releases	100 mg/L (not specified)
Aquatic compartment - sediment in freshwater	52.3 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	5.2 mg/kg sed dw (not specified)
Terrestrial compartment - soil	5.49 mg/kg dw (not specified)
Sewage treatment plant	100 mg/L (not specified)
Octadecanoic acid, 12-hydroxy-, reaction produ	cts with hexamethylenediamine
Aquatic compartment - freshwater	0.2 mg/L (freshwater)
Aquatic compartment - marine water	0.02 mg/L (marine water)
Aquatic compartment - water, intermittent releases	0.18 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	860 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	86 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	171.5 mg/kg dw (soil)
Sewage treatment plant	10 mg/L (sewage treatment plant)
Oral secondary poisoning	27.8 mg/kg food (food sec poisoning)

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 skin.

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

· Penetration time of glove material

KCL Vitoject 890

breakthrough time > 480 min.

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thickness: 0,7 mm

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at limited contact KCL Camatril 730 breakthrough time 30 min.

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
- · 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 properties

· General Information

· Physical state

· Colour: · Odour:

· Odour threshold:

· Melting point/freezing point:

· Boiling point or initial boiling point and boiling

range

· Flammability

· Lower and upper explosion limit

· Lower:

· Upper: · Flash point:

· Auto-ignition temperature:

Decomposition temperature:

· pH

· Viscosity:

· Kinematic viscosity

Dynamic at 20 °C:

Solubility

· water:

· Partition coefficient n-octanol/water (log value)

· Vapour pressure at 20 °C:

Density and/or relative density

Density at 20 °C:

· Relative density · Vapour density

Liquid

According to product specification

Characteristic
Not determined.
Undetermined.

108 °C (78-83-1 butanol)

Flammable.

1.1 Vol % (1330-20-7 xylene) 7 Vol % (1330-20-7 xylene) 27 °C (1330-20-7 xylene) 390 °C (78-83-1 butanol)

Not determined. Not determined.

at 40 °C: > 20,5 mm<sup>2</sup>/s

1,200 mPas

Not miscible or difficult to mix.

Not determined.

6.7-8.2 hPa (1330-20-7 xylene)

>1.48-1.48 g/cm<sup>3</sup> Not determined. Not determined.

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· 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.

· 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
 Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

· 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	· LD/LC50 values relevant for classification:		
25068-3	8-6 bis	sphenol-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)	
1330-20	-		
Oral	LD50	3,523 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
78-83-1	butan	ol	
Oral	LD50	2,460 mg/kg (rat)	

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LD50	3,400 mg/kg (rabbit)
-	benzene
LD50	3,500 mg/kg (rat)
LD50	17,800 mg/kg (rabbit)
-2 Zin	c oxide
LD50	>5,000 mg/kg (rat)
	thoxy-2-propanol
LD50	5,660 mg/kg (rat)
LD50	13,000 mg/kg (rabbit)
	lidynetrimethanol
LD50	14,100 mg/kg (rat)
	4 ethy LD50 LD50 -2 Zin LD50 2 1-Me LD50 LD50 propy

- · Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye damage.
- · 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

· Aquatic to	•
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)
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)
78-83-1 bu	tanol
LC50/96 h	1.33-2.03 mg/l (fish)
LC50/48 h	1.03-1.19 mg/l (crustaceans)
100-41-4 et	thylbenzene
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)
1314-13-2	Zinc oxide
EC50/72 h	0.21 mg/l (algae)
EC50/48 h	0.67 mg/l (Ceriodaphnia dubia)
107-98-2 1	-Methoxy-2-propanol
EC50/48 h	23,300 mg/l (Daphnia magna)
LC50/96 h	6,812 mg/l (Leuciscus idus)
· 12.2 Persis	stence and degradability No further relevant information available.

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- 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: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Toxic for 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for 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, IATA UN1263
- · 14.2 UN proper shipping name
- ADR/RID/ADN 1263 PAINT, ENVIRONMENTALLY HAZARDOUS

· IMDG PAINT, MARINE POLLUTANT

· IATA PAINT

- · 14.3 Transport hazard class(es)
- · ADR/RID/ADN, IMDG



· Class 3 Flammable liquids.

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Label	3	
IATA		
Class Label	3 Flammable liquids. 3	
14.4 Packing group ADR/RID/ADN, IMDG, IATA	III	
14.5 Environmental hazards: Marine pollutant: Special marking (ADR/RID/ADN):	Yes Symbol (fish and tree) Symbol (fish and tree)	
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E,S-E A	
14.7 Maritime transport in bulk according to IM instruments	O Not applicable.	
Transport/Additional information:		
ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS	

## **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- $\cdot$  Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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.

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## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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· REGULATION (EU) 2019/1148

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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.

### 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: 19.04.2023 · Version number of previous version: 25

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

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

Repr. 2: Reproductive toxicity - 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 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

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

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.