

Printing date 06.02.2025 Version: 13 (replaces version 12) Revision: 06.02.2025

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

· 1.1 Product identifier

Trade name: MONOPOX TZ-PRIMER

· Article number: C81-1 · UFI: YGTC-N1H7-V00A-MCJ1

1.2 Relevant identified uses of the substance or mixture and uses advised against

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC9a Coatings and paints, thinners, paint removers

Process category

PROC7 Industrial spraying

PROC10 Roller application or brushing

PROC19 Manual activities involving hand contact PROC13 Treatment of articles by dipping and pouring

· Application of the substance / the mixture solvent based, two component epoxy coating base

#### · 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Zandleven Coatings B.V.

Snekertrekweg 57-59, 8912 AA Leeuwarden, Netherlands

Tel: +31 58 2129545 Fax: +31 58 2155996

E-mail: info@zandleven.com Internet: www.zandleven.com

· Further information obtainable from: R&D department: sds@zandleven.com

## · 1.4 Emergency telephone number:

Nationaal Vergiftigingen Informatie

+31 (0)88 755 8000

ORFILA (INRS): + 33 (0)1 45 42 59 59 Centres Antipoison et de Toxicovigilance

ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0800 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50 PARIS: 01 40 05 48 48 STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

Giftnotruf der Charité, Berlin: 030/19240

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-

Nord):0551/19 240

Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240 Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen,

Sachsen-Anhalt und Thüringen: 0361/730 730

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Universitätsklinikum des Saarlandes: 06841/19240

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Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240 Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240

Supplier

+31 (0)58 2677590 (during office hours)

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.Skin Sens. 1 H317 May cause an allergic skin reaction.

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

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02

GHS05

#### · Signal word Danger

#### · Hazard-determining components of labelling:

bisphenol-A epoxy resin (Mw 700-1100)

butanol

Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol maleic anhydride

Poly(oxy-1,2-ethandiyl),.alpha.-[(2Z)-3-carboxy-1-oxo-2-propenyl]-.omega.-hydroxy-, C9-11-alkyl ethers

#### **Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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.

P303+P361+P353 IF ON ŠKIN (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.

Immediately call a POISON CENTER/doctor. P310 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:

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

refreshages 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	① Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	1
	Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %	1
	Skin Irrit. 2: H315: C ≥ 5 %	1

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CAS: 1330-20-7	xylene	td. of p
EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	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 2
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23	butanol <b>♦</b> Flam. Liq. 3, H226; <b>♦</b> Eye Dam. 1, H318; <b>♦</b> Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-1
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	2.5-1
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	2.5-1
CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	© Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Acute Tox. 4, H312; STOT SE 3, H335-H336, EUH066	1-2.
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.
CAS: 1224635-08-8 EC number: 807-423-7	Poly(oxy-1,2-ethandiyl),.alpha[(2Z)-3-carboxy-1-oxo-2-propenyl]- .omegahydroxy-, C9-11-alkyl ethers \$\frac{1}{2}\$ Skin Sens. 1, H317	<1
CAS: 77-99-6 Reg.nr.: 01-2119486799-10	propylidynetrimethanol & Repr. 2, H361fd	0-<
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9	maleic anhydride  Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	0-<
·SVHC		
68512-30-1 Oligomerisation	and alkylation reaction products of 2-phenylpropene and phenol	

# 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

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- 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.

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

1330-2	0-7 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	
107-98	-2 1-Methoxy-2-propanol	
IOELV	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin	

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Long-term - systemic effects, general population 0.75 mg/kg bw/day (general popula	ONEL (Da	rived No Effect Level) for workers:		(Contd. of
Acute - systemic effects, worker Long-term - systemic effects, worker Acute - systemic effects, worker Long-term - systemic effects, worker Long-term - systemic effects, worker Long-term - local effects, worker Long-term - local effects, worker Long-term - local effects, worker Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general popul			-1100\	
Long-term - systemic effects, worker   12.25 mg/m² (worker)				hw/day (worker)
Inhalative   Cong-term - systemic effects, worker   12.25 mg/m³ (worker)   1330-20-7 xylene   Cong-term - systemic effects, worker   12.25 mg/m³ (worker)   12.25 mg/m³ (worker)   1330-20-7 xylene   Cong-term - systemic effects, worker   Cong-term - systemic effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   Cong-term - systemic effects, work	Jennai	_	1 -	
Long-term - systemic effects, worker   12.25 mg/m³ (worker)	nhalativa	•		· · · · · · · · · · · · · · · · · · ·
Dermal   Long-term - systemic effects, worker   Long-term - systemic effects, worker   Long-term - local effects, worker   Long-term - systemic effects, general population   Long-term - s			_	•
Long-term - systemic effects, worker   Acute - local effects, worker   Long-term - systemic effects, worker   Long-term - local effects, worker   221 mg/m³ (worker)   222 mg/m³ (worker)   222 mg/m³ (worker)   222 mg/m³ (worker)   223 mg/m³ (worker)   233 m		,	12.23 mg/m	i (worker)
Inhalative   Acute - local effects, worker   Acute - local effects, worker   Long-term - systemic effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   221 mg/m³ (worker)   310 mg/m		•	212 ma/ka	hw/day (worker)
Acute - local effects, worker Long-term - systemic effects, worker Long-term - local effects, worker Long-term - local effects, worker Nes3-1 butanol Inhalative Inhalative Long-term - local effects, worker Res3-1 Oligomerisation and alkylation reaction products of 2-phenylpropene and phenology and population and phenology and pop			"	,
Long-term - local effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   Sature - local effects, general population   Sature - local effects, general population		_	1	` '
Long-term - local effects, worker   221 mg/m³ (worker)			1	
Inhalative   Long-term - local effects, worker   310 mg/m³ (worker)		•	1	
Inhalative   Long-term - local effects, worker   310 mg/m³ (worker)	70.00.4 h		221 mg/m <sup>s</sup>	(worker)
Dermal   Long-term - systemic effects, worker   S53.5 mg/m³ (worker)   S53.5 mg/m³ (wo			040/3	(see also a)
Dermal Inhalative   Long-term - systemic effects, worker   1.41 mg/m³ (worker)   1.42 mg/m³ (worker)   1.42 mg/m³ (worker)   1.43 mg/m³ (worker)   1.44 mg/m³ (worker)   1.45 mg/m² (worker)   1.45 mg/m² (worker)   1.46		)	_	
Inhalative   Long-term - systemic effects, worker   1.41 mg/m³ (worker)				
Dormal   Long-term - systemic effects, worker   Long-term - systemic effects, worker   Long-term - systemic effects, worker   293 mg/m³ (worker)   293 mg/				- '
Long-term - systemic effects, worker   12.5 mg/kg bw/day (human)   151 mg/m³ (human)			1.41 mg/m	(worker)
Acute - local effects, worker   Long-term - systemic effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   Long-term - systemic effects, general population   Long-term -			100	hu/dov (worker)
Long-term - systemic effects, worker   77 mg/m³ (worker)				
128601-23-0 C9-aromatics   12.5 mg/kg bw/day (human)   107-98-2 1-Methoxy-2-propanol   151 mg/m³ (human)   151 mg/m³ (human)   107-98-2 1-Methoxy-2-propanol   152.5 mg/kg bw/day (worker)   153.5 mg/kg bw/day (worker)   153.5 mg/kg bw/day (worker)   153.5 mg/m³ (worker)   153.5 mg/kg bw/day (general population   155.5 mg/kg bw/day (general p	nhalative	•	1	
Long-term - systemic effects, worker   So.6 mg/kg bw/day (worker)   So.5 mg/m³		,	// mg/m³ (	worker)
Inhalative   Long-term - systemic effects, worker   151 mg/m³ (human)			1.0 = "	
Dermal   Long-term - systemic effects, worker   Long-term - systemic effects, worker   S53.5 mg/m³ (worker)   S5				· ,
Long-term - systemic effects, worker   50.6 mg/kg bw/day (worker)   553.5 mg/m³ (worker)   553.5 mg/m³ (worker)   369 mg/m³ (worker)			151 mg/m <sup>3</sup>	(human)
Inhalative   Acute - local effects, worker   Long-term - systemic effects, worker   S53.5 mg/m³ (worker)   369 mg/			1-0-0 "	
Long-term - systemic effects, worker   369 mg/m³ (worker)				· ,
Dermal   Long-term - systemic effects, worker   19.54 mg/m³ (worker)			_	•
Long-term - systemic effects, worker   19.54 mg/kg bw/day (worker)			369 mg/m <sup>3</sup>	(worker)
Inhalative   Long-term - systemic effects, worker   19.54 mg/m³ (worker)  108-31-6 maleic anhydride Inhalative   Acute - systemic effects, worker   Long-term - systemic effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   Long-term - local effects, worker   DNEL (Derived No Effect Level) for the general polulation:  25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)  Oral   Acute - systemic effects, general population   Long-term - systemic effects, general population   Long-term - systemic effects, general population   Long-term - systemic effects, general population   3.571 mg/kg bw/day (general population				
Inhalative				· ,
Inhalative Acute - systemic effects, worker Long-term - systemic effects, worker Long-term - local effects, worker DNEL (Derived No Effect Level) for the general polulation:  25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)  Oral Acute - systemic effects, general population Long-term - systemic effects, general population Acute - local effects, general population Acute - local effects, general population Long-term - systemic effects, general population Acute - local effects, general population Long-term - systemic eff			19.54 mg/n	າ³ (worker)
Acute - local effects, worker Long-term - systemic effects, worker Long-term - local effects, worker    Long-term - local effects, worker     Long-term - local effects, worker     Long-term - local effects, worker     Long-term - local effects, worker     DNEL (Derived No Effect Level) for the general polulation:    25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)     Acute - systemic effects, general population     Long-term - systemic effects, genera				
Long-term - systemic effects, worker    Long-term - local effects, worker   Long-term - local effects, worker   0.081 mg/m³ (worker)	nhalative		_	•
DNEL (Derived No Effect Level) for the general polulation:  25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)  Oral Acute - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population 3.571 mg/kg bw/day (general population Long-term - systemic effects, general population 3.571 mg/kg bw/day (general population Long-term - systemic effects, general population Acute - local effects, general population Acute - local effects, general population Acute - local effects, general population 260 mg/m³ (general population)				
DNEL (Derived No Effect Level) for the general polulation:  25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)  Oral			_	
25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)  Oral		Long-term - local effects, worker	0.081 mg/n	n³ (worker)
Oral Acute - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population  1330-20-7 xylene  Oral Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population Acute - local effects, general population  O.75 mg/kg bw/day (general population 12.5 mg/kg bw/day (general population) 260 mg/m³ (general population)	DNEL (De	rived No Effect Level) for the gener	al polulatio	n:
Oral Acute - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population  1330-20-7 xylene  Oral Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population Acute - local effects, general population  O.75 mg/kg bw/day (general population 12.5 mg/kg bw/day (general population) 260 mg/m³ (general population)	•	,	•	
Long-term - systemic effects, general population Acute - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population  1330-20-7 xylene  Oral Dermal Unng-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population  260 mg/m³ (general population)			,	0.75 mg/kg bw/day (general population)
Dermal Acute - systemic effects, general polulation Long-term - systemic effects, general population 3.571 mg/kg bw/day (general population 3.571 mg/kg bw/day (general population 3.571 mg/kg bw/day (general population 12.5				, ,
Long-term - systemic effects, general population 3.571 mg/kg bw/day (general population population)  Table 1330-20-7 xylene  Oral	Dermal			3.571 mg/kg bw/day (general population)
1330-20-7 xylene  Oral Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population 260 mg/m³ (general population)				, , , , , , , , , , , , , , , , , , , ,
Oral Long-term - systemic effects, general population Long-term - systemic effects, general population Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population 260 mg/m³ (general population)	1330-20-7		1 1	1 0.0 . 3 (9 - 11 - 12 - 12 - 13 - 14 - 15 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15
Dermal Long-term - systemic effects, general population Acute - systemic effects, general population Acute - local effects, general population Acute - local effects, general population 260 mg/m³ (general population)		-	I population	12.5 mg/kg bw/day (general population)
Inhalative Acute - systemic effects, general population Acute - local effects, general population  Acute - local effects, general population  260 mg/m³ (general population)				
Acute - local effects, general population 260 mg/m³ (general population)				
				,
Long-term - Systemic enects, general population (00.3 mg/m² (deneral bobulation)				,
Long-term - local effects, general population 65.3 mg/m³ (general population)		-		

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78-83-1 bu	utanol	(Contd. of pa
	utanoi Long-term - local effects, general popula	tion 55 mg/m³ (general population)
		ion products of 2-phenylpropene and phenol
Oral		pulation 0.2 mg/kg bw/day (general population)
Dermal		pulation 1.67 mg/kg bw/day (general population)
		pulation 0.348 mg/m³ (general population)
	ethylbenzene	pulation 0.346 mg/m (general population)
Oral		pulation 1.6 mg/kg bw/day (general population)
	Long-term - systemic effects, general po	
	3-0 C9-aromatics	pulation 15 mg/m (general population)
	Long-term - systemic effects, general po	nulation 7.5 ma/ka hw/day (human)
Dermal	Long-term - systemic effects, general po	
	Long-term - systemic effects, general po	
		pulation 32 mg/m (numan)
	I-Methoxy-2-propanol	nulation 2.2 mg/kg bu/day (ganaral nanulation)
Oral		pulation 3.3 mg/kg bw/day (general population)
Dermal		pulation 18.1 mg/kg bw/day (general population)
	Long-term - systemic effects, general po ropylidynetrimethanol	pulation 43.9 mg/m³ (general population)
<u>.</u>		nulation 0.24 mg/kg by/day (general population)
Oral		pulation 0.34 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, general po	
	Long-term - systemic effects, general po	
•	edicted No Effect Concentration) value	
	6 bisphenol-A epoxy resin (Mw 700-11	
-	ompartment - freshwater	0.006 mg/L (not specified)
-	ompartment - marine water	0.0006 mg/L (not specified)
-	ompartment - water, intermittent releases	- , , ,
-	ompartment - sediment in freshwater	0.996 mg/kg sed dw (not specified)
-	ompartment - sediment in marine water	0.0996 mg/kg sed dw (not specified)
	compartment - soil	0.196 mg/kg dw (not specified)
-	eatment plant	10 mg/L (not specified)
	ndary poisoning	11 mg/kg food (not specified)
1330-20-7		
Aquatic co	mpartment - freshwater	0.327 mg/L (freshwater)
•	ompartment - marine water	0.327 mg/L (marine water)
Aquatic co	ompartment - water, intermittent releases	0.327 mg/L (intermittent release water)
•	ompartment - sediment in freshwater	12.46 mg/kg sed dw (sediment fresh water)
-	ompartment - sediment in marine water	12.46 mg/kg sed dw (sediment marine water)
Terrestrial	compartment - soil	2.31 mg/kg dw (soil)
Sewage tre	eatment plant	6.58 mg/L (sewage treatment plant)
78-83-1 bu		
Aquatic co	mpartment - freshwater	0.4 mg/L (freshwater)
Aquatic co	mpartment - marine water	0.04 mg/L (marine water)
Aquatic co	mpartment - water, intermittent releases	11 mg/L (intermittent release water)
Aquatic co	mpartment - sediment in freshwater	1.52 mg/kg sed dw (sediment fresh water)
Aquatic co	mpartment - sediment in marine water	0.152 mg/kg sed dw (sediment marine water)
Terrestrial	compartment - soil	0.0699 mg/kg dw (not specified)
Sewage tre	eatment plant	10 mg/L (sewage treatment plant)
68512-30-	1 Oligomerisation and alkylation react	ion products of 2-phenylpropene and phenol
Aquatic co	empartment - freshwater	0.0014 mg/L (freshwater)
, , , , , , , , , , , , , , , , , , , ,		



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Aquatic compartment - water, intermittent releases	
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)
107-98-2 1-Methoxy-2-propanol	
Aquatic compartment - freshwater	10 mg/L (not specified)
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)
108-31-6 maleic anhydride	
Aquatic compartment - freshwater	0.038 mg/L (freshwater)
Aquatic compartment - marine water	0.004 mg/L (marine water)
Aquatic compartment - water, intermittent releases	0.379 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	0.296 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.03 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.037 mg/kg dw (soil)
Sewage treatment plant	44.6 mg/L (sewage treatment plant)
A 1 1141 1 1 6 41 11 4 11 1 1 1 1	

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)

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#### · 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

- · 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: According to product specification

· Odour: · Odour threshold:

Characteristic Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

108 °C (78-83-1 butanol)

Flammability

Flammable.

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· 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: 390 °C (78-83-1 butanol)

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

• Kinematic viscosity at 40 °C: > 20,5 mm<sup>2</sup>/s

· Dynamic at 20 °C: 1,200 mPas

· Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

• **Vapour pressure at 20 °C:** 6.7-8.2 hPa (1330-20-7 xylene)

· Density and/or relative density

Density at 20 °C: >1.58-1.59 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.

· Change in condition

· Flammable solids

• 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.

· Self-reactive substances and mixtures Void · Pyrophoric liquids Void **Pyrophoric solids** Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable Void gases in contact with water Oxidising liquids Void Oxidising solids Void Organic peroxides Void · Corrosive to metals Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

· Desensitised explosives

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

- 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.

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(Contd. of page 9) · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

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

LD/LC50 values relevant for classification:			
25068-38-	25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)		
Oral	3. 3. 7		
Dermal LD50 >1,200 mg/kg (rat)		>1,200 mg/kg (rat)	
		>2,000 mg/kg (rabbit)	
1330-20-7	xylene		
Oral	LD50	3,523 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
78-83-1 bu	ıtanol		
Oral	LD50	2,460 mg/kg (rat)	
Dermal	LD50	3,400 mg/kg (rabbit)	
68512-30-	1 Oligome	risation and alkylation reaction products of 2-phenylpropene and phenol	
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
Inhalative LC50/4 h >4.9 mg/l (rat) (OECD 403)		>4.9 mg/l (rat) (OECD 403)	
100-41-4 e	thylbenze	ene	
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
128601-23	-0 C9-aro	matics	
Oral	LD50	5,558-7,093 mg/kg (rat)	
Dermal	LD50	2,000-3,160 mg/kg (rabbit)	
107-98-2 1	-Methoxy	-2-propanol	
Oral	LD50	5,660 mg/kg (rat)	
	LD50	13,000 mg/kg (rabbit)	
77-99-6 propylidynetrimethanol			
Oral	LD50	14,100 mg/kg (rat)	
108-31-6 n	naleic anl	nydride	
Oral	LD50	1,090 mg/kg (rat)	
Dermal	LD50	2,620 mg/kg (rabbit)	
Inhalative	LC50/4 h	>4.35 mg/l (mouse)	

- 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

None of the ingredients is listed.

EU

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# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic to	· Aquatic toxicity:		
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	1330-20-7 xylene		
EC50/72 h	2.2 mg/l (algae)		
EC50/48 h	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)		
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 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.

## · vPvB:

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

- 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.

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

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	

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HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

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

44.4 LIN mumber on ID mumber	/IDG and ICAO/IATA.
· 14.1 UN number or ID number · ADR/RID/ADN, ADN, IMDG · IATA	Void UN1263
· 14.2 UN proper shipping name · ADR/RID/ADN, ADN, IMDG · IATA	Void PAINT
14.3 Transport hazard class(es)	
· ADR/RID/ADN, ADN, IMDG · Class	Void
· Class · Label	<ul><li>3 Flammable liquids.</li><li>3</li></ul>
· 14.4 Packing group · ADR/RID/ADN, IMDG · IATA	Void III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according instruments	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 a 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.

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- · 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

3

- National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

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

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

### SECTION 16: Other information

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

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: 12
- 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)

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 (RÈACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids - Category 2

Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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 Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- Sources
- ECHA European Chemical Agency http://echa.europa.eu/information-on-chemicals
- SDS of raw materials supplied by producer/supplier.
- \* Data compared to the previous version altered.