

Printing date 06.02.2025 Version: 17 (replaces version 16) Revision: 06.02.2025

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

· 1.1 Product identifier

· Trade name: MONOPOX MICRO ZINK

· Article number: C7-1

· UFI: JS6C-A11Q-300E-EXGY

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

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+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
Eye Dam. 1
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 Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very 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









GHS02

GHS05

GHS07

GHS09

Signal word Danger

Hazard-determining components of labelling:

butanol

bisphenol-A epoxy resin (Mw 700-1100)

Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H410 Very 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 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.

Immediately call a POISON CENTER/doctor. P310

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

Dispose of contents/container in accordance with local/regional/national/international P501

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

 \cdot **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

Percentages of the components are expressed as a percentage by weight

CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37-xxxx

zinc powder -zinc dust (stabilized)

Aguatic Acute 1, H400; Aguatic Chronic 1, H410

50-75%

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		ntd. of page 2
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, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	bisphenol-A epoxy resin (Mw 700-1100) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	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: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23	butanol ♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Skin Irrit. 2, H315; STOT SE 3, H335-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	1-2.5%
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: 942-330-6 Reg.nr.: 01-2120101675-63	Reaction products of fatty acids, tall oil and fatty acids, C18 unsaturated, trimers and fatty acids, C18 unsaturated, dimers with (9Z)-octadec-9-en-1-amine STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	<1%

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

SECTION 4: First aid measures

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

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. 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.

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- · 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	20-7 xylene	
IOELV	/ Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin	
100-41	1-4 ethylbenzene	
IOELV	/ Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin	
107-98	B-2 1-Methoxy-2-propanol	
IOELV	/ Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin	
	(Contd.o	1 n:

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DNEL (Da	rived No Effect Level) for workers:		(Contd. of
	zinc powder -zinc dust (stabilized)		
Dermal	Long-term - systemic effects, worker	83 ma/ka b	w/day (worker)
	Long-term - systemic effects, worker		- ,
1330-20-7	-	o mg/m (w	onor)
Dermal	Long-term - systemic effects, worker	212 mg/kg	bw/day (worker)
		442 mg/m ³	
minalative	'	442 mg/m ³	` ,
	Long-term - systemic effects, worker		,
	, ,	221 mg/m ³	•
25068-38-	-6 bisphenol-A epoxy resin (Mw 700-	_	(WOTKET)
Dermal		•	bw/day (worker)
Dermai	Long-term - systemic effects, worker		* ,
Inhalativa	Acute - systemic effects, worker	12.25 mg/m	
IIIIalative	-	1	
1314-13-2	Zinc oxide	12.20 mg/m	(WOINCI)
Dermal	Long-term - systemic effects, worker	83 ma/ka h	w/day (worker)
	Long-term - systemic effects, worker		,
78-83-1 b	, ,	o mg/m (w	ono,
		310 mg/m ³	(worker)
	ethylbenzene	o to mg/m	(WOTKET)
Dermal	Long-term - systemic effects, worker	180 ma/ka	hw/day (worker)
	, ,	293 mg/m ³	- , ,
minalative	Long-term - systemic effects, worker	_	
107-98-2	1-Methoxy-2-propanol	77 mg/m (worker)
Dermal	Long-term - systemic effects, worker	50 6 ma/ka	hw/day (worker)
	, ,	553.5 mg/m	* '
midiativo	Long-term - systemic effects, worker		
Reaction			C18 unsaturated, trimers and fatty acids, C
unsaturat	ed, dimers with (9Z)-octadec-9-en-1	-amine	o to unouturatou, trimoro una fatty aoiao, c
Dermal	Long-term - systemic effects, worker	0.43 mg/kg	bw/day (worker)
Inhalative	Long-term - systemic effects, worker		
DNEL (De	rived No Effect Level) for the genera	al polulatio	n:
	zinc powder -zinc dust (stabilized)		•••
Oral	· · · · · · · · · · · · · · · · · · ·	population	0.83 mg/kg bw/day (general population)
Dermal	, ,		83 mg/kg bw/day (general population)
Inhalative	1		
1330-20-7		Paradion	g (353.81 kakaranı)
Oral		population	12.5 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, general		
	Acute - systemic effects, general popular		260 mg/m³ (general population)
	Acute - local effects, general population		260 mg/m³ (general population)
	Long-term - systemic effects, general		_ '- '- ' ' ' '
	Long-term - systemic effects, general pop		65.3 mg/m³ (general population)
25068-38	6 bisphenol-A epoxy resin (Mw 700-		Co.o marin (goneral population)
Oral	Acute - systemic effects, general popular		0.75 mg/kg bw/day (general population)
O I GI	1		0.75 mg/kg bw/day (general population)
	Acute - systemic effects, general polu		3.571 mg/kg bw/day (general population)
Dermal	, wate - systemic encots, general polu		
Dermal	Long-term - systemic effects, general	nonulation	I3 571 mg/kg hw/day (general nonulation)
	Long-term - systemic effects, general	population	3.571 mg/kg bw/day (general population)

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

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D	l and tames and tames of the tames	l-4°	(Contd. of pa
Dermal	Long-term - systemic effects, general po		
	Long-term - systemic effects, general po	pulation	2.5 mg/m² (general population)
78-83-1 bu	Long-term - local effects, general popula	ation	55 mg/m³ (general population)
	cong-term - local effects, general popula ethylbenzene	ation	55 mg/m² (general population)
Oral	Long-term - systemic effects, general po	nulation	1.6 mg/kg bw/day (ganaral papulation)
_	Long-term - systemic effects, general po	-	
	I-Methoxy-2-propanol	pulation	13 mg/m (general population)
Oral	Long-term - systemic effects, general po	nulation	3.3 mg/kg hw/day (general population)
Dermal		-	18.1 mg/kg bw/day (general population)
	Long-term - systemic effects, general po	-	
		-	C18 unsaturated, trimers and fatty acids, C
unsaturat	ed, dimers with (9Z)-octadec-9-en-1-ar	nine	o to anoutaratou, amioro ana ratty aorao, o
Oral	Long-term - systemic effects, general po	pulation	0.11 mg/kg bw/day (general population)
Dermal		-	0.21 mg/kg bw/day (general population)
	Long-term - local effects, general popula	ation	11.3 mg/kg (general population)
Inhalative	Long-term - systemic effects, general po	pulation	0.37 mg/m³ (general population)
· PNEC (Pre	edicted No Effect Concentration) value	es:	
7440-66-6	zinc powder -zinc dust (stabilized)		
Aquatic co	mpartment - freshwater	0.0206 r	mg/L (not specified)
Aquatic co	mpartment - marine water	0.0061 r	ng/L (not specified)
Aquatic co	mpartment - sediment in freshwater	117.8 m	g/kg sed dw (not specified)
Aquatic co	mpartment - sediment in marine water	56.5 mg	/kg sed dw (not specified)
Terrestrial	compartment - soil	35.6 mg	/kg dw (not specified)
Sewage tre	eatment plant	0.1 mg/l	_ (not specified)
1330-20-7			
-	mpartment - freshwater	I	g/L (freshwater)
-	mpartment - marine water	I .	g/L (marine water)
-	-	I .	g/L (intermittent release water)
•	mpartment - sediment in freshwater		g/kg sed dw (sediment fresh water)
-	mpartment - sediment in marine water		g/kg sed dw (sediment marine water)
	compartment - soil		/kg dw (soil)
	eatment plant	_	/L (sewage treatment plant)
	6 bisphenol-A epoxy resin (Mw 700-11		
=	mpartment - freshwater		g/L (not specified)
-	mpartment - marine water	1	mg/L (not specified)
•	mpartment - water, intermittent releases	I	g/L (not specified)
	mpartment - sediment in freshwater	I .	g/kg sed dw (not specified)
=	mpartment - sediment in marine water	I .	ng/kg sed dw (not specified)
	compartment - soil	I .	g/kg dw (not specified)
-	eatment plant	_	(not specified)
	ndary poisoning Zinc oxide	i i mg/k	g food (not specified)
	mpartment - freshwater	N 0206 •	mg/L (not specified)
-	-	1	ng/L (not specified) ng/L (not specified)
·		• • •	
Aquatic compartment - sediment in freshwater 117.8 mg/kg sed dw (not specified)		, , , ,	
Aquatic compartment - sediment in marine water Terrestrial compartment - soil 56.5 mg/kg sed dw (not specified) 35.6 mg/kg dw (not specified)		, , ,	
	eatment plant	_	_ (not specified)
Jewaye III		J. 1 1119/1	- (not specifica)
78-83-1 bu	Itanol		



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Aquatic compartment - marine water	0.04 mg/L (marine water)
Aquatic compartment - water, intermittent releases	11 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	1.52 mg/kg sed dw (sediment fresh water)
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	
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)
Reaction products of fatty acids, tall oil and fatty unsaturated, dimers with (9Z)-octadec-9-en-1-and	y acids, C18 unsaturated, trimers and fatty acids, C18 nine
Aquatic compartment - freshwater	0.194 mg/L (freshwater)
Aquatic compartment - marine water	0.019 mg/L (marine water)
Aquatic compartment - water, intermittent releases	0.097 mg/L (intermittent release water)
Aquatic compartment - sediment in freshwater	29.6 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	2.96 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	120 mg/kg dw (soil)
Sewage treatment plant	100 mg/L (sewage treatment plant)
Oral secondary poisoning	0.416 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.

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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
- 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.

Undetermined.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Liqui

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

Melting point/freezing point:
Boiling point or initial boiling point and boiling

range 137-143 °C (1330-20-7 xylene)

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· **Flammability** Flammable.

· Lower and upper explosion limit

· Lower: Not determined.
Upper: Not determined.

· Flash point: 30 °C

• Auto-ignition temperature: 500 °C (1330-20-7 xylene)

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

• Kinematic viscosity at 40 °C: > 20,5 mm²/s

· **Dynamic at 20 °C:** 650 mPas

· Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

Density and/or relative density

Density at 20 °C: >2.86 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

• Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure
Void
Void

• Flammable liquids Flammable liquid and vapour.

Flammable solids
Self-reactive substances and mixtures
Void
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which emit flammable

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

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.

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· 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/LC5	· LD/LC50 values relevant for classification:				
7440-66	7440-66-6 zinc powder -zinc dust (stabilized)				
Oral	LD50	>2,000 mg/kg (rat)			
1330-20	1330-20-7 xylene				
Oral	LD50	3,523 mg/kg (rat)			
Dermal	LD50	2,000 mg/kg (rabbit)			
25068-3	8-6 bi	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)			
1314-13	-2 Zin	c oxide			
Oral	LD50	>5,000 mg/kg (rat)			
	78-83-1 butanol				
Oral	LD50	2,460 mg/kg (rat)			
Dermal	LD50	3,400 mg/kg (rabbit)			
	100-41-4 ethylbenzene				
Oral	LD50	3,500 mg/kg (rat)			
		17,800 mg/kg (rabbit)			
		thoxy-2-propanol			
Oral	LD50	5,660 mg/kg (rat)			
Dermal	LD50	13,000 mg/kg (rabbit)			

- 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:		
	zinc powder -zinc dust (stabilized)	
LC50/96 h	0.24 mg/l (Oncorhynchus mykiss)	
LC50/48 h	0.068 mg/l (Daphnia magna)	
	0.645-1 mg/l (Penaeus chinensis (fleshy prawn))	
1330-20-7		
EC50/72 h	2.2 mg/l (algae)	
EC50/48 h	>3.4 mg/l (Ceriodaphnia dubia)	
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LC50/96 h 2.6 mg/l (Oncorhynchus mykiss)	, , ,
LC50/24 h 1 mg/l (Daphnia magna)	
25068-38-6 bisphenol-A epoxy resin (Mw 700-1100)	
EC50/48 h 2.1 mg/l (Daphnia magna)	
LC50/96 h 1.3 mg/l (Oncorhynchus mykiss)	
LC50/72 h >11 mg/l (algae)	
1314-13-2 Zinc oxide	
EC50/72 h 0.21 mg/l (algae)	
EC50/48 h 0.67 mg/l (Ceriodaphnia dubia)	
78-83-1 butanol	
LC50/96 h 1.33-2.03 mg/l (fish)	
LC50/48 h 1.03-1.19 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)	
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	

- 12.2 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:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Very 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.

Very 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				
HP14	Ecotoxic				

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· Uncleaned packaging:

Tunnel restriction code

· Limited quantities (LQ)

·IMDG

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

Transport in accordance with ADR/RID, IMDG and	d 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	
¥3	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	ш
ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards:	v
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
14.6 Special precautions for user	· · · · · · · · · · · · · · · · · · ·
Hazard identification number (Kemler code):	Warning: Flammable liquids. 30
EMS Number:	F-E,S-E
Stowage Category	A —, <u>— —</u>
14.7 Maritime transport in bulk according to IN	10
instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
Transport acts com/	Maximum net quantity per outer packaging: 1000 ml
Transport category	3 D/E

D/E

5L

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· Excepted quantities (EQ)	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
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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.

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: 16
- · 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)

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

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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 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. 1A: Skin sensitisation – Category 1A
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources

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.