

Printing date 06.02.2025 Version: 14 (replaces version 13) Revision: 06.02.2025

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

· 1.1 Product identifier

· Trade name: 2 V 43 VERHARDER

· Article number: 2V43

· UFI: CRWA-51K0-X00G-Y3A6

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

· Sector of Use

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

SU19 Building and construction work

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

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

Process category

PROC7 Industrial spraying

PROC10 Roller application or brushing

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

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

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

· Manufacturer/Supplier:

Zandleven Coatings B.V.

Snekertrekweg 57-59, 8912 AA Leeuwarden, Netherlands

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

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

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

#### · 1.4 Emergency telephone number:

Nationaal Vergiftigingen Informatie

+31 (0)88 755 8000

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

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

TOULOUSE: 05 61 77 74 47

Giftnotruf der Charité, Berlin: 030/19240

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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. STOT SE 3 H335 May cause respiratory irritation.

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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:

butan-1-ol

xylene

#### · Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

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

P305+P351+P338 F 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.

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

P405 Store locked up.

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

regulations.

#### · 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

#### SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

Percentages of the components are expressed as a percentage by weight

	· · · · · · · · · · · · · · · · · · ·	
CAS: 1330-20-7 EINECS: 215-535-7	xylene	25-50%
Index number: 601-022-00-9	♦ 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,	
Reg.nr.: 01-2119488216-32	H335	
CAS: 71-36-3	butan-1-ol	2.5-10%
EINECS: 200-751-6 Index number: 603-004-00-6	♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
Reg.nr.: 02-2119484630-38	3KII IIII. 2, 11313, 3101 3E 3, 11333-11330	
CAS: 445498-00-0 EC number: 610-196-5	formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	2.5-10%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; <b>()</b> Acute Tox. 4, H302	
CAS: 100-41-4	ethylbenzene	2.5-10%
EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	
Neg.iii 01-2119409370-33		

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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: 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.

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.

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- · 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

1330-20-7	xylene		
	nort-term value: 442 mg/m³, 100 ppm		
	ng-term value: 221 mg/m³, 50 ppm		
Sk	*** *		
	ethylbenzene		
	nort-term value: 884 mg/m³, 200 ppm ng-term value: 442 mg/m³, 100 ppm		
Sk			
DNFL (De	rived No Effect Level) for workers:		
1330-20-7	·		
	Long-term - systemic effects, worker	212 ma/ka	bw/dav (worker)
	Acute - systemic effects, worker	442 mg/m³	- '
	Acute - local effects, worker	442 mg/m³	,
	Long-term - systemic effects, worker	_	` ,
	Long-term - local effects, worker	221 mg/m <sup>3</sup>	` ,
71-36-3 bi	utan-1-ol		,
Inhalative	Long-term - local effects, worker	310 mg/m <sup>3</sup>	(worker)
100-41-4	ethylbenzene		
Dermal	Long-term - systemic effects, worker	180 mg/kg	bw/day (worker)
Inhalative	Acute - local effects, worker	293 mg/m³ (worker)	
	Long-term - systemic effects, worker	77 mg/m³ (	worker)
90-72-2 2,	4,6-tris(dimethylaminomethyl)phen	ol	
Dermal	Acute - systemic effects, worker		ow/day (worker)
	Long-term - systemic effects, worker		÷ , , ,
Inhalative	Acute - systemic effects, worker	2.1 mg/m <sup>3</sup>	`
	Long-term - systemic effects, worker	0.53 mg/m <sup>3</sup>	(worker)
DNEL (De	rived No Effect Level) for the gener	al polulatio	n:
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		125 mg/kg bw/day (general population)
Inhalative	Acute - systemic effects, general pop		260 mg/m³ (general population)
	Acute - local effects, general population		260 mg/m³ (general population)
	Long-term - systemic effects, general		65.3 mg/m³ (general population)
	Long-term - local effects, general pop	oulation	65.3 mg/m³ (general population)
71-36-3 bı			
			3.125 mg/kg bw/day (general population)
	Long-term - local effects, general pop	oulation	55 mg/m³ (general population)
	ethylbenzene		
Oral	Long-term - systemic effects, general	population	1.6 mg/kg bw/day (general population)

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Inhalative	Long-term - systemic effects, general po	pulation	15 mg/m³ (general population)
90-72-2 2,	4,6-tris(dimethylaminomethyl)phenol		
Oral	Long-term - systemic effects, general po	pulation	0.075 mg/kg bw/day (general population)
Dermal	Acute - systemic effects, general polulat	ion	0.075 mg/kg bw/day (general population)
	Long-term - systemic effects, general po	pulation	0.075 mg/kg bw/day (general population)
Inhalative	Acute - systemic effects, general popula	tion	0.13 mg/m³ (general population)
	Long-term - systemic effects, general po	pulation	0.13 mg/m³ (general population)
PNEC (Pr	edicted No Effect Concentration) value	es:	
1330-20-7	xylene		
Aquatic co	ompartment - freshwater	0.327 m	ıg/L (freshwater)
Aquatic co	ompartment - marine water	0.327 m	ıg/L (marine water)
Aquatic co	ompartment - water, intermittent releases	0.327 m	g/L (intermittent release water)
Aquatic co	ompartment - sediment in freshwater	12.46 m	g/kg sed dw (sediment fresh water)
Aquatic co	ompartment - sediment in marine water	12.46 m	g/kg sed dw (sediment marine water)
Terrestrial	compartment - soil	2.31 mg	ı/kg dw (soil)
Sewage tr	eatment plant	6.58 mg	/L (sewage treatment plant)
71-36-3 bi	utan-1-ol		
Aquatic co	ompartment - freshwater	0.082 m	g/L (not specified)
Aquatic co	ompartment - marine water	0.0082	mg/L (not specified)
Aquatic co	ompartment - water, intermittent releases	2.25 mg	/L (not specified)
Aquatic co	ompartment - sediment in freshwater	0.178 m	g/kg sed dw (not specified)
Aquatic co	ompartment - sediment in marine water	0.0178	mg/kg sed dw (not specified)
Terrestrial	compartment - soil	0.015 m	g/kg dw (not specified)
Sewage tr	eatment plant	2,476 m	g/L (not specified)
100-41-4	ethylbenzene		
Aquatic co	ompartment - freshwater	0.1 mg/l	L (not specified)
Aquatic co	ompartment - marine water	0.01 mg	/L (not specified)
Aquatic co	ompartment - water, intermittent releases	0.1 mg/	L (not specified)
Aquatic co	ompartment - sediment in freshwater	13.7 mg	/kg sed dw (not specified)
Aquatic co	ompartment - sediment in marine water	1.37 mg	/kg sed dw (not specified)
Terrestrial	compartment - soil	2.68 mg	/kg dw (not specified)
Sewage tr	eatment plant	9.6 mg/l	L (not specified)
Oral secondary poisoning		0.02 mg	/kg food (not specified)
90-72-2 2,	4,6-tris(dimethylaminomethyl)phenol		
Aquatic co	ompartment - freshwater	0.046 m	g/L (freshwater)
Aquatic co	ompartment - marine water	0.005 m	g/L (marine water)
Aquatic co	ompartment - water, intermittent releases	0.46 mg	/L (intermittent release water)
Aquatic co	ompartment - sediment in freshwater	0.262 m	g/kg sed dw (sediment fresh water)
Aquatic co	ompartment - sediment in marine water	0.025 m	g/kg sed dw (sediment marine water)
Terrestrial	compartment - soil	0.025 m	ıg/kg dw (soil)
	eatment plant		L (sewage treatment plant)

Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Provide readily accessible eye wash stations and safety showers.

Keep away from foodstuffs, beverages and feed.

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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.

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.

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

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### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

· Physical state Liquid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

Boiling point or initial boiling point and boiling

range 116-118 °C (71-36-3 butan-1-ol)

Flammability Flammable.

Lower and upper explosion limit

Lower: 1.1 Vol % (1330-20-7 xylene)
 Upper: 7 Vol % (1330-20-7 xylene)
 Flash point: 32 °C

• **Auto-ignition temperature:** 340 °C (71-36-3 butan-1-ol)

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

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

Dynamic at 20 °C: 500 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:
Relative density
Vapour density

0.97 g/cm³
Not determined.
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

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals

Void

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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 v	values rele	evant for classification:
1330-20-7	xylene	
Oral	LD50	3,523 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
71-36-3 bi	utan-1-ol	
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/l (rat)
100-41-4	thylbenze	ene
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
90-72-2 2,	4,6-tris(di	methylaminomethyl)phenol
Oral	LD50	2,169 mg/kg (rat)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- 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

1211 10/110	,
· Aquatic to	xicity:
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)

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71-36-3 bu	tan-1-ol
EC50/48 h	1,328 mg/l (Daphnia magna)
LC50/96 h	1,376 mg/l (pimephales promelas)
100-41-4 e	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)
90-72-2 2,4	,6-tris(dimethylaminomethyl)phenol
EC50/96 h	718 mg/l (Palaemonetes vulgaris (grass shrimp))
EC50/72 h	84 mg/l (algae)
LC50/96 h	175 mg/l (Cyprinus carpio)
LC50/24 h	249 mg/l (Cyprinus carpio)
	222 mg/l (Oncorhynchus mykiss)

- · 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: 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
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP14	Ecotoxic

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

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SECTION 14: Transport information  Transport in accordance with ADR/RID, IMDG and	NICAO/IATA
· · · · · · · · · · · · · · · · · · ·	I IOAO/IATA.
I4.1 UN number or ID number ADR/RID/ADN, IMDG, IATA	UN1263
14.2 UN proper shipping name ADR/RID/ADN IMDG IATA	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT, MARINE POLLUTANT PAINT
4.3 Transport hazard class(es)	
ADR/RID/ADN, IMDG	
Class	3 Flammable liquids.
Label 	3
Class	3 Flammable liquids.
Label	3 Fiammable liquids.
14.4 Packing group ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards: 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): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN 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
Transport category Tunnel restriction code	3 D/E
MDG 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

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

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· 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

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.

- **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: 13
- 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 (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

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 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

· 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.