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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: POLYFINISH MC-ZINC HS · Article number: C46-1 · UFI: G63S-P092-P00D-MYVY · 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, one component polyurethane coating · Uses advised against SU21 Consumer uses: Private households / general public / consumers 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 Àntipoison et de Toxicovigilance ANGERS: 02 41 48 21 21 BORDEAUX: 05 56 96 40 80 LILLE: 0800 59 59 59 LYON: 04 72 11 69 11 MARSEILLE: 04 91 75 25 25 NANCY: 03 83 22 50 50 PARIS: 01 40 05 48 48 STRASBOURG: 03 88 37 37 37 TOULOUSE: 05 61 77 74 47 Giftnotruf der Charité, Berlin: 030/19240 Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240 Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240 Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730 Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240 Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240 Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240 Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240 Supplier +31 (0)58 2677590 (during office hours)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

 \cdot Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

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

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components:		
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37-xxxx	are expressed as a percentage by weight zinc powder -zinc dust (stabilized) � Aquatic Acute 1, H400; Aquatic Chronic 1, H410	75-100
CAS: 128601-23-0 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	C9-aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H312; STOT SE 3, H335-H336, EUH066	2.5-10
CAS: 67815-87-6 EC number: 642-899-8	aromatic polyisocyanate-prepolymer Resp. Sens. 1, H334; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 ATE: LC50/4 h inhalative: 1.5 mg/l	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	2.5-109
CAS: 9016-87-9 Index number: 615-005-00-9	diphenylmethanediisocyanate,isomeres and homologues	2.5-10
CAS: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7 Reg.nr.: 01-2119980050-47	4-isocyanatosulphonyltoluene Resp. Sens. 1, H334;	0-<1%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47	 4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 % 	<1%
CAS: 5873-54-1 EINECS: 227-534-9 Index number: 615-005-00-9 Reg.nr.: 01-2119480143-45-xxxx	o-(p-isocyanatobenzyl)phenyl isocyanate	<1%
CAS: 85711-55-3 EINECS: 288-315-1 Reg.nr.: 01-2119974148-28	Fatty acids, tall-oil, compds. with oleylamine STOT RE 2, H373;	<1%

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SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· 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. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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: Mouth respiratory protective device.

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). 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. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Keep respiratory protective device available.

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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

	8.1	Control	parameters
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- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNEL (De	rived No Effect Level) for workers:				
•	zinc powder -zinc dust (stabilized)				
Dermal	Long-term - systemic effects, worker		w/day (worker)		
Inhalative	Long-term - systemic effects, worker				
128601-23	3-0 C9-aromatics				
Dermal	Long-term - systemic effects, worker	12.5 mg/kg	bw/day (human)		
Inhalative	Long-term - systemic effects, worker	151 mg/m ³	(human)		
1314-13-2	Zinc oxide				
Dermal	Long-term - systemic effects, worker	83 mg/kg b	w/day (worker)		
Inhalative	Long-term - systemic effects, worker	5 mg/m³ (w	vorker)		
	4-isocyanatosulphonyltoluene	•			
	Long-term - systemic effects, worker				
	Long-term - systemic effects, worker		³ (human)		
	o-(p-isocyanatobenzyl)phenyl isoc	-			
Inhalative	Acute - local effects, worker	0.1 mg/m ³	. ,		
	Long-term - local effects, worker	0.05 mg/m ³	· · ·		
	3 Fatty acids, tall-oil, compds. with	•			
Dermal	Long-term - systemic effects, worker	0.024 mg/k	g bw/day (worker)		
· DNEL (De	DNEL (Derived No Effect Level) for the general polulation:				
7440-66-6	zinc powder -zinc dust (stabilized)				
Oral			0.83 mg/kg bw/day (general population)		
Dermal		• •	83 mg/kg bw/day (general population)		
	Long-term - systemic effects, general	l population	2.5 mg/m³ (general population)		
128601-23	3-0 C9-aromatics				
Oral	Long-term - systemic effects, genera				
Dermal	Long-term - systemic effects, general				
	Long-term - systemic effects, genera	l population	32 mg/m³ (human)		
	Zinc oxide				
Oral			0.83 mg/kg bw/day (general population)		
Dermal			83 mg/kg bw/day (general population)		
	Long-term - systemic effects, general	I population	2.5 mg/m ³ (general population)		
	4-isocyanatosulphonyltoluene				
Oral	Long-term - systemic effects, genera				
Dermal	Long-term - systemic effects, genera	• •			
	Long-term - systemic effects, genera		U.8 mg/m [°] (human)		
	o-(p-isocyanatobenzyl)phenyl isoc	-			
Innalative	Acute - local effects, general populati	ion	0.05 mg/m³ (human)		

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	Long-term - local effects, general popu	ulation	0.025 mg/m³ (human)
85711-55	-3 Fatty acids, tall-oil, compds. with o	leylamine	
Oral	Long-term - systemic effects, general	population	0.012 mg/kg bw/day (general population)
Dermal	Long-term - systemic effects, general	population	0.012 mg/kg bw/day (general population)
PNEC (Pi	redicted No Effect Concentration) value	ues:	
7440-66-6	6 zinc powder -zinc dust (stabilized)		
Aquatic c	ompartment - freshwater	0.0206 mg	J/L (not specified)
Aquatic c	ompartment - marine water	0.0061 mg	J/L (not specified)
Aquatic c	ompartment - sediment in freshwater	117.8 mg/	kg sed dw (not specified)
Aquatic c	ompartment - sediment in marine water	56.5 mg/k	g sed dw (not specified)
Terrestrial compartment - soil		35.6 mg/k	g dw (not specified)
Sewage treatment plant		0.1 mg/L (not specified)
1314-13-2 Zinc oxide			
Aquatic c	ompartment - freshwater	0.0206 mg	J/L (not specified)
Aquatic c	ompartment - marine water	0.0061 mg	J/L (not specified)
Aquatic compartment - sediment in freshwater		117.8 mg/	kg sed dw (not specified)
Aquatic c	ompartment - sediment in marine water	56.5 mg/k	g sed dw (not specified)
-		35.6 mg/k	g dw (not specified)
Sewage t	reatment plant	0.1 mg/L (not specified)
85711-55-3 Fatty acids, tall-oil, compds. with oleylamine			
Oral secondary poisoning 0.47 mg/kg			g 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.

- Store protective clothing separately.
- 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

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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 Camatril 730

breakthrough time > 480 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:

Neoprene gloves

Disposables

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

General Information		
Physical state	Liquid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	165 °C (Hydrocarbons, C9, aromatics)	
Flammability	Flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	51 °C	
Auto-ignition temperature:	450 °C (Hydrocarbons, C9, aromatics)	
Decomposition temperature:	Not determined.	
рН	Not determined.	
Viscosity:		
Kinematic viscosity	at 40 °C: > 20,5 mm²/s	
Dynamic at 20 °C:	500 mPas	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	

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Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	>3.49-<3.53 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	3
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.

· LD/LC50 values relevant for classification:

LD/LOOD	value o i i		
7440-66-	6 zinc po	wder -zinc dust (stabilized)	
Oral	LD50	>2,000 mg/kg (rat)	
128601-2	23-0 C9-ai	omatics	
Oral	LD50	5,558-7,093 mg/kg (rat)	
Dermal	LD50	2,000-3,160 mg/kg (rabbit)	
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		c polyisocyanate-prepolymer		
		1.5 mg/l (ATE)		
1314-13-2				
Oral	LD50	>5,000 mg/kg (rat)		
		methanediisocyanate,isomeres and homologues		
Oral	LD50	49,000 mg/kg (rat)		
Dermal	LD50	>9,400 mg/kg (rabbit)		
Inhalative	LC50/4 h	1.5 mg/l (ate)		
		0.49 mg/l (rat)		
4083-64-1	-	natosulphonyltoluene		
Oral	LD50	2,230 mg/kg (rat)		
101-68-8 4	4,4'-methy	lenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (mouse)		
5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate				
Inhalative LC50/4 h 1.5 mg/l (ate)				
 Primary irritant effect: Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. 				
· Respiratory or skin sensitisation				
May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
May cause an allergic skin reaction.				
• Germ cell mutagenicity Based on available data, the classification criteria are not met.				
• Carcinogenicity Suspected of causing cancer. • 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.				
		other hazards		
Endocrine	e disruptir	ng properties		
None of the ingredients is listed.				

SECTION 12: Ecological information

7440-66-6 zinc powder -zinc dust (stabilized)LC50/96 h0.24 mg/l (Oncorhynchus mykiss)LC50/48 h0.068 mg/l (Daphnia magna)0.645-1 mg/l (Penaeus chinensis (fleshy prawn))1314-13-2 Zinc oxideEC50/72 h0.21 mg/l (algae)EC50/74 h0.67 mg/l (Ceriodaphnia dubia)4083-64-1 4-iscopanatosulphonyltolueneEC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/72 h25-30 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-iscopanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)· 12.2 Persistence and degradability No further relevant information available.	· Aquatic toxic	-		
LC50/48 h0.068 mg/l (Daphnia magna) 0.645-1 mg/l (Penaeus chinensis (fleshy prawn))1314-13-2 Zinc oxideEC50/72 h0.21 mg/l (algae) 0.67 mg/l (Ceriodaphnia dubia)4083-64-1 4-isocyanatosulphonyltolueneEC50/72 h25-30 mg/l (aquatic algae and cyanobacteria) EC50/48 hEC50/72 h25-30 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish) LC50/48 hLC50/48 h45 mg/l (fish)LC50/48 h10 mg/l (aquatic invertebrates)LC50/48 h45 mg/l (fish)LC50/48 h45 mg/l (fish)LC50/48 h45 mg/l (fish)LC50/48 h10 mg/l (aquatic invertebrates)LC50/48 h45 mg/l (fish)LC50/48 h45 mg/l (fish)				
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1314-13-2 Zinc oxideEC50/72 h0.21 mg/l (algae)EC50/72 h0.67 mg/l (Ceriodaphnia dubia)4083-64-1 4-isocyanatosulphonyltolueneEC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)EC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)	LC50/48 h	0.068 mg/l (Daphnia magna)		
EC50/72 h0.21 mg/l (algae)EC50/48 h0.67 mg/l (Ceriodaphnia dubia) 4083-64-1 4-isocyanatosulphonyltoluene EC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/72 h25-30 mg/l (aquatic invertebrates)EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)		0.645-1 mg/l (Penaeus chinensis (fleshy prawn))		
EC50/48 h0.67 mg/l (Ceriodaphnia dubia)4083-64-1 4-isocyanatosulphonyltolueneEC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)	1314-13-2 Zi	nc oxide		
Hor mg/r (termination)4083-64-1 4-isocyanatosulphonyltolueneEC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)	EC50/72 h	0.21 mg/l (algae)		
EC50/72 h25-30 mg/l (aquatic algae and cyanobacteria)EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)S873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)	EC50/48 h 0.67 mg/l (Ceriodaphnia dubia)			
EC50/48 h100 mg/l (aquatic invertebrates)EC50/24 h100 mg/l (aquatic invertebrates)LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish) 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate NOEC 21 days10 mg/l (aquatic invertebrates)	4083-64-1 4-isocyanatosulphonyltoluene			
EC50/24 h 100 mg/l (aquatic invertebrates) LC50/96 h 45 mg/l (fish) LC50/48 h 45 mg/l (fish) 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate NOEC 21 days 10 mg/l (aquatic invertebrates)	EC50/72 h	25-30 mg/l (aquatic algae and cyanobacteria)		
LC50/96 h45 mg/l (fish)LC50/48 h45 mg/l (fish)5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanateNOEC 21 days10 mg/l (aquatic invertebrates)	EC50/48 h 100 mg/l (aquatic invertebrates)			
LC50/48 h 45 mg/l (fish) 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate NOEC 21 days 10 mg/l (aquatic invertebrates)	EC50/24 h 100 mg/l (aquatic invertebrates)			
5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate NOEC 21 days 10 mg/l (aquatic invertebrates)	LC50/96 h 45 mg/l (fish)			
NOEC 21 days 10 mg/l (aquatic invertebrates)	LC50/48 h 45 mg/l (fish)			
	5873-54-1 o-	(p-isocyanatobenzyl)phenyl isocyanate		
• 12.2 Persistence and degradability No further relevant information available.				
• 12.3 Bioaccumulative potential No further relevant information available.	12.2 Persistence and degradability No further relevant information available.			
• 12.4 Mobility in soil No further relevant information available.				

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· 12.5 Results of PBT and vPvB assessment

- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- 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. 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
	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
HP7	Carcinogenic
HP14	Ecotoxic

· Uncleaned packaging:

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

SECTION 14: Transport information

Transport in accordance with ADR/RID, IMDG and ICAO/IATA.

 14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA 	UN1263	
 14.2 UN proper shipping name ADR/RID/ADN IMDG IATA 	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT, MARINE POLLUTANT PAINT	
· 14.3 Transport hazard class(es)		
· ADR/RID/ADN, IMDG		
· Class	3 Flammable liquids.	
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· Label	3	
·IATA		
· Class	3 Flammable liquids.	
· Label	3	
 14.4 Packing group ADR/RID/ADN, IMDG, IATA 	III	
 · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR/RID/ADN): 	Yes Symbol (fish and tree) Symbol (fish and tree)	
• 14.6 Special precautions for user	Warning: Flammable liquids.	
Hazard identification number (Kemler code):	30	
• EMS Number:	F-E, <u>S-E</u>	
· Stowage Category	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	3	
· Tunnel restriction code	D/E	
·IMDG		
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1	
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 00 ml	
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

HAZARDOUS

- · Directive 2012/18/EU
- \cdot 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

- $^{\circ}$ Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b, 74

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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· 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

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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: 15 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 ATE: Acute toxicity estimate values Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - 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 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.