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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: HARD ANTIFOULING

Other means of identification:

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

Relevant uses: Products for ships, boats, ... (construction, repair, ...); biocide Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Troton Sp. z o.o. Ząbrowo 14A

78-120 Gościno - Zachodniopomorskie - Polska Phone: +48 94 35 123 94 - Fax: +48 94 35 126 22

troton@troton.com.pl www.troton.pl / www.troton.eu

1.4 Emergency telephone number: (8am-4pm)+48 094 35 123 94; 112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410

Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 3: Flammable liquids, Category 3, H226

Lact.: Reproductive toxicity, effects on or via lactation, H362

Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2 (Oral), H373

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

GB CLP Regulation:

Danger











Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage. Flam. Liq. 3: H226 - Flammable liquid and vapour. Lact.: H362 - May cause harm to breast-fed children.

Skin Irrit. 2: H315 - Causes skin irritation.

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

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

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SECTION 2: HAZARDS IDENTIFICATION (continued)

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264: Wash thoroughly after use.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378: In case of fire: Use ABC powder extinguisher to put it out.

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

Supplementary information:

EUH205: Contains epoxy constituents. May produce an allergic reaction.

Substances that contribute to the classification

Dicopper oxide; Xylene; Rosin; Ethylbenzene

2.3 Other hazards:

Product contains PBT/vPvB substances: alkanes, C14-17, chloro

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Aqueous mixture composed of additives and biocides

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

	Identification	Chemical name/Classification	Concentration
CAS:	1317-39-1	Dicopper oxide Acute Tox. 4: H302+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318 - Danger	25 - <50 %
CAS:	1330-20-7	Xylene Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger	10 - <25 %
CAS:	8050-09-7	Rosin Skin Sens. 1: H317 - Warning	10 - <25 %
CAS:	100-41-4	Ethylbenzene Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	5 - <10 %
CAS:	1314-13-2	zinc oxide Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	2,5 - <5 %
CAS:	1569-02-4	1-ethoxypropan-2-ol Eye Irrit. 2: H319; Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	2,5 - <5 %
CAS:	85535-85-9	alkanes, C14-17, chloro Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Lact.: H362; EUH066 - Warning	2,5 - <5 %
CAS:	25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	<1 %
CAS:	108-88-3	Toluene Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger tion on the hazards of the substances consult sections 11, 12 and 16	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

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SECTION 4: FIRST AID MEASURES (continued)

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

See section 8.

6.2 Environmental precautions:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 and with the minimum requirements for protecting the security and health of workers under the selection criteria of The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 35 °C

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
Xylene V	WEL (8h)	50 ppm	220 mg/m ³
CAS: 1330-20-7	WEL (15 min)	100 ppm	441 mg/m ³
Rosin	WEL (8h)		0.05 mg/m ³
CAS: 8050-09-7	WEL (15 min)		0.15 mg/m ³
Ethylbenzene	WEL (8h)	100 ppm	441 mg/m ³



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EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupa	Occupational exposure limits		
CAS: 100-41-4	WEL (15 min)	125 ppm	552 mg/m ³	
Toluene	WEL (8h)	50 ppm	191 mg/m ³	
CAS: 108-88-3	WEL (15 min)	100 ppm	384 mg/m ³	

Biological limit values:

BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVS) - EH40/2005

Identification	NULL	NULL	NULL
Xylene CAS: 1330-20-7	1030 mg/g (NULL)	Methyl hippuric acid in urine	Post shift

DNEL (Workers):

		Short e	xposure	Long exposure	
Identification		Systemic	Local	Systemic	Local
Dicopper oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1317-39-1	Dermal	Non-applicable	Non-applicable	137 mg/kg	Non-applicable
EC: 215-270-7	Inhalation	Non-applicable	Non-applicable	1 mg/m³	1 mg/m³
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
Rosin	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	2.131 mg/kg	Non-applicable
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	10 mg/m ³
Ethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	293 mg/m ³	77 mg/m³	Non-applicable
zinc oxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	5 mg/m ³	0.5 mg/m ³
1-ethoxypropan-2-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1569-02-4	Dermal	Non-applicable	Non-applicable	74 mg/kg	Non-applicable
EC: 216-374-5	Inhalation	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable
alkanes, C14-17, chloro	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 85535-85-9	Dermal	Non-applicable	Non-applicable	47.9 mg/kg	Non-applicable
EC: 287-477-0	Inhalation	Non-applicable	Non-applicable	6.7 mg/m ³	Non-applicable
reaction product: bisphenol-A-(epichlorhydrin) ($MW < 700$)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 25068-38-6	Dermal	Non-applicable	Non-applicable	0.75 mg/kg	Non-applicable
EC: 500-033-5	Inhalation	Non-applicable	Non-applicable	4.93 mg/m ³	Non-applicable
Toluene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	384 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	384 mg/m ³	384 mg/m ³	192 mg/m³	192 mg/m ³

DNEL (General population):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Dicopper oxide	Oral	0.082 mg/kg	Non-applicable	0.041 mg/kg	Non-applicable
CAS: 1317-39-1	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-270-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable
Xylene	Oral	Non-applicable	Non-applicable	12.5 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	260 mg/m ³	260 mg/m ³	65.3 mg/m ³	65.3 mg/m ³
Rosin	Oral	Non-applicable	Non-applicable	1.065 mg/kg	Non-applicable
CAS: 8050-09-7	Dermal	Non-applicable	Non-applicable	1.065 mg/kg	Non-applicable
EC: 232-475-7	Inhalation	Non-applicable	Non-applicable	Non-applicable	Non-applicable



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
Ethylbenzene	Oral	Non-applicable	Non-applicable	1.6 mg/kg	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	Non-applicable	15 mg/m ³	Non-applicable
zinc oxide	Oral	Non-applicable	Non-applicable	0.83 mg/kg	Non-applicable
CAS: 1314-13-2	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
EC: 215-222-5	Inhalation	Non-applicable	Non-applicable	2.5 mg/m ³	Non-applicable
1-ethoxypropan-2-ol	Oral	Non-applicable	Non-applicable	14 mg/kg	Non-applicable
CAS: 1569-02-4	Dermal	Non-applicable	Non-applicable	44.3 mg/kg	Non-applicable
EC: 216-374-5	Inhalation	Non-applicable	Non-applicable	127 mg/m ³	Non-applicable
alkanes, C14-17, chloro	Oral	Non-applicable	Non-applicable	0.58 mg/kg	Non-applicable
CAS: 85535-85-9	Dermal	Non-applicable	Non-applicable	28.75 mg/kg	Non-applicable
EC: 287-477-0	Inhalation	Non-applicable	Non-applicable	2 mg/m³	Non-applicable
reaction product: bisphenol-A-(epichlorhydrin) ($\mbox{MW} < 700$)	Oral	Non-applicable	Non-applicable	0.5 mg/kg	Non-applicable
CAS: 25068-38-6	Dermal	Non-applicable	Non-applicable	0.0893 mg/kg	Non-applicable
EC: 500-033-5	Inhalation	Non-applicable	Non-applicable	0.87 mg/m ³	Non-applicable
Toluene	Oral	Non-applicable	Non-applicable	8.13 mg/kg	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	226 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	226 mg/m ³	226 mg/m ³	56.5 mg/m ³	56.5 mg/m ³

PNEC:

Identification				
Dicopper oxide	STP	0.23 mg/L	Fresh water	0.0078 mg/L
CAS: 1317-39-1	Soil	65 mg/kg	Marine water	0.0052 mg/L
EC: 215-270-7	Intermittent	Non-applicable	Sediment (Fresh water)	87 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	676 mg/kg
Xylene	STP	6.58 mg/L	Fresh water	0.327 mg/L
CAS: 1330-20-7	Soil	2.31 mg/kg	Marine water	0.327 mg/L
EC: 215-535-7	Intermittent	0.327 mg/L	Sediment (Fresh water)	12.46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12.46 mg/kg
Rosin	STP	1000 mg/L	Fresh water	0.002 mg/L
CAS: 8050-09-7	Soil	0 mg/kg	Marine water	0 mg/L
EC: 232-475-7	Intermittent	0.016 mg/L	Sediment (Fresh water)	0.007 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0.001 mg/kg
Ethylbenzene	STP	9.6 mg/L	Fresh water	0.1 mg/L
CAS: 100-41-4	Soil	2.68 mg/kg	Marine water	0.01 mg/L
EC: 202-849-4	Intermittent	0.1 mg/L	Sediment (Fresh water)	13.7 mg/kg
	Oral	0.02 g/kg	Sediment (Marine water)	1.37 mg/kg
zinc oxide	STP	0.1 mg/L	Fresh water	0.0206 mg/L
CAS: 1314-13-2	Soil	35.6 mg/kg	Marine water	0.0061 mg/L
EC: 215-222-5	Intermittent	Non-applicable	Sediment (Fresh water)	117.8 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	56.5 mg/kg
1-ethoxypropan-2-ol	STP	1250 mg/L	Fresh water	10 mg/L
CAS: 1569-02-4	Soil	1.97 mg/kg	Marine water	1 mg/L
EC: 216-374-5	Intermittent	19 mg/L	Sediment (Fresh water)	37.6 mg/kg
	Oral	0.142 g/kg	Sediment (Marine water)	3.76 mg/kg
alkanes, C14-17, chloro	STP	80 mg/L	Fresh water	0.001 mg/L
CAS: 85535-85-9	Soil	11.9 mg/kg	Marine water	0.0002 mg/L
EC: 287-477-0	Intermittent	Non-applicable	Sediment (Fresh water)	13 mg/kg
	Oral	0.01 g/kg	Sediment (Marine water)	2.6 mg/kg



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Identification				
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	STP	10 mg/L	Fresh water	0.006 mg/L
CAS: 25068-38-6	Soil	0.065 mg/kg	Marine water	0.001 mg/L
EC: 500-033-5	Intermittent	0.018 mg/L	Sediment (Fresh water)	0.341 mg/kg
	Oral	0.011 g/kg	Sediment (Marine water)	0.034 mg/kg
Toluene	STP	13.61 mg/L	Fresh water	0.68 mg/L
CAS: 108-88-3	Soil	2.89 mg/kg	Marine water	0.68 mg/L
EC: 203-625-9	Intermittent	0.68 mg/L	Sediment (Fresh water)	16.39 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	16.39 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.425 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
Mandatory complete body protection	Heat-resistant protective clothing	For professional use only. Clean periodically according to the manufacturer's instructions.

F.- Additional emergency measures

Emergency measure Standards		Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	© +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

Environmental exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:

Appearance:

Colour:

Odour:

Odour threshold:

Liquid

Viscous

Viscous

Characteristic

Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 136 °C Vapour pressure at 20 °C: 842 Pa

Vapour pressure at 50 °C: 4440.08 Pa (4.44 kPa) Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1.6 kg/m³ (ASTM D1298)

Relative density at 20 °C: 1.288

Dynamic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 20 °C: Non-applicable * Kinematic viscosity at 40 °C: >20.5 mm²/s Concentration: Non-applicable * pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Solubility properties: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable *

Flammability:

Flash Point: 39 $^{\circ}$ C (ASTM D-92) Flammability (solid, gas): Non-applicable *

Autoignition temperature: 255 °C

Lower flammability limit: Not available

Upper flammability limit: Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components:

Non-applicable *

components.

Other safety characteristics:

Surface tension at 20 °C: Non-applicable *
Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Xylene (3); Ethylbenzene (2B); alkanes, C14-17, chloro (2B); Toluene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: May cause harm to breast-fed children
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Д	cute toxicity	Genus
Dicopper oxide	LD50 oral	500 mg/kg	Rat
CAS: 1317-39-1	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	11 mg/L (ATEi)	
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	11 mg/L (ATEi)	
Rosin	LD50 oral	4100 mg/kg	Rat
CAS: 8050-09-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
zinc oxide	LD50 oral	7950 mg/kg	Mouse
CAS: 1314-13-2	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Ethylbenzene	LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4	LD50 dermal	15354 mg/kg	Rabbit
	LC50 inhalation	17.2 mg/L (4 h)	Rat
1-ethoxypropan-2-ol	LD50 oral	>5000 mg/kg	
CAS: 1569-02-4	LD50 dermal	8100 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
alkanes, C14-17, chloro	LD50 oral	>5000 mg/kg	
CAS: 85535-85-9	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	LD50 oral	>5000 mg/kg	
CAS: 25068-38-6	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Toluene	LD50 oral	5580 mg/kg	Rat
CAS: 108-88-3	LD50 dermal	12124 mg/kg	Rat
	LC50 inhalation	28.1 mg/L (4 h)	Rat



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SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Dicopper oxide	LC50	0.8 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 1317-39-1	EC50	0.117 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Xylene	LC50	>10 - 100 (96 h)		Fish
CAS: 1330-20-7	EC50	>10 - 100 (48 h)		Crustacean
	EC50	>10 - 100 (72 h)		Algae
Rosin	LC50	150 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 8050-09-7	EC50	238 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	185 mg/L (72 h)	Selenastrum capricornutum	Algae
Ethylbenzene	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae
zinc oxide	LC50	0.82 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 1314-13-2	EC50	3.4 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
1-ethoxypropan-2-ol	LC50	4600 mg/L (96 h)	Leuciscus idus	Fish
CAS: 1569-02-4	EC50	21100 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
alkanes, C14-17, chloro	LC50	>0.1 - 1 (96 h)		Fish
CAS: 85535-85-9	EC50	>0.1 - 1 (48 h)		Crustacean
	EC50	>0.1 - 1 (72 h)		Algae
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	LC50	>1 - 10 (96 h)		Fish
CAS: 25068-38-6	EC50	>1 - 10 (48 h)		Crustacean
	EC50	>1 - 10 (72 h)		Algae
Toluene	LC50	5.5 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 108-88-3	EC50	3.78 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	Non-applicable		

Chronic toxicity:

Identification	Concentration		Species	Genus
Xylene	NOEC	1.3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	NOEC	1.17 mg/L	Ceriodaphnia dubia	Crustacean



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Identification	Concentration		Species	Genus
Ethylbenzene	NOEC	Non-applicable		
CAS: 100-41-4	NOEC	0.96 mg/L	Ceriodaphnia dubia	Crustacean
zinc oxide	NOEC	0.44 mg/L	Oncorhynchus mykiss	Fish
CAS: 1314-13-2	NOEC	0.031 mg/L	Daphnia magna	Crustacean
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	NOEC	Non-applicable		
CAS: 25068-38-6	NOEC	0.3 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Identification	Degra	adability	Biodegradab	oility
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	88 %
Rosin	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 8050-09-7	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	32 %
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
1-ethoxypropan-2-ol	BOD5	2.15 g O2/g	Concentration	100 mg/L
CAS: 1569-02-4	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	78 %
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700)	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 25068-38-6	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
Toluene	BOD5	2.5 g O2/g	Concentration	100 mg/L
CAS: 108-88-3	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential		
Xylene	BCF	9	
CAS: 1330-20-7	Pow Log	2.77	
	Potential	Low	
Ethylbenzene	BCF	1	
CAS: 100-41-4	Pow Log	3.15	
	Potential	Low	



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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification		Bioaccumulation potential		
1-ethoxypropan-2-ol	BCF 1		1	
		Pow Log	1	
		Potential	Low	
reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) CAS: 25068-38-6		BCF	4	
		Pow Log	2.8	
		Potential	Low	
Toluene		BCF	90	
CAS: 108-88-3		Pow Log	2.73	
		Potential	Moderate	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volati	ility
Xylene	Koc	202	Henry	524.86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
Ethylbenzene	Koc	520	Henry	798.44 Pa·m³/mol
CAS: 100-41-4	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.859E-2 N/m (25 °C)	Moist soil	Yes
Toluene	Koc	178	Henry	672.8 Pa·m³/mol
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.793E-2 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product contains PBT/vPvB substances: alkanes, C14-17, chloro

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class	
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous	

Type of waste:

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



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SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number: UN1263

14.2 UN proper shipping name: **PAINT**

14.3 Transport hazard class(es): 3 3

Labels:

14.4 Packing group: TTT

14.5 Environmental hazards: Yes

14.6 Special precautions for user

see section 9 Physico-Chemical properties:

Limited quantities: 5 I

14.7 Transport in bulk according Non-applicable to Annex II of Marpol and

the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

14.1 UN number: UN1263 14.2 UN proper shipping name: **PAINT**

14.3 Transport hazard class(es):

Labels:

14.4 Packing group: III14.5 Marine pollutant: Yes

14.6 Special precautions for user

223, 955, 163, 367 Special regulations:

EmS Codes: F-E, S-E Physico-Chemical properties: see section 9

Limited quantities: 5 L

Non-applicable Segregation group:

14.7 Transport in bulk according Non-applicable

to Annex II of Marpol and the IBC Code:

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



14.1 UN number: UN1263 14.2 UN proper shipping name: **PAINT**

14.3 Transport hazard class(es): 3

Labels: 3

14.4 Packing group: III 14.5 Environmental hazards: Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9 Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and

the IBC Code:

SECTION 15: REGULATORY INFORMATION

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

Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable Substances listed in UK candidate list of substances of very high concern (SVHCs): alkanes, C14-17, chloro

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000
E1	ENVIRONMENTAL HAZARDS	100	200



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SECTION 15: REGULATORY INFORMATION (continued)

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

Contains more than 0.1 % of Toluene by weight. Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

- H318: Causes serious eye damage.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H315: Causes skin irritation.
- H335: May cause respiratory irritation.
- H373: May cause damage to organs through prolonged or repeated exposure (Oral).
- H317: May cause an allergic skin reaction.
- H362: May cause harm to breast-fed children.
- H302: Harmful if swallowed.
- H226: Flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation:

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled. Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Acute Tox. 4: H312+H332 - Harmful in contact with skin of Acute Tox. 4: H332 - Harmful if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Flam. Liq. 3: H226 - Flammable liquid and vapour. Lact.: H362 - May cause harm to breast-fed children. Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

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

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Eye Dam. 1: Calculation method Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method Skin Irrit. 2: Calculation method STOT SE 3: Calculation method STOT RE 2: Calculation method Skin Sens. 1: Calculation method Lact.: Calculation method Acute Tox. 4: Calculation method Flam. Liq. 3: On basis of test data

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.