Safety Data Sheet

MAPEPROOF ONE COAT comp. B
Safety Data Sheet dated: 15/03/2023 - version 2



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEPROOF ONE COAT comp. B

Trade code: 9028213 UFI: P1Q4-V0KS-N00J-US7Y

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

Recommended use: Hardener for epoxy products

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

SECTION 2: Hazards identification







2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Dangei

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

P391 Collect spillage.

Special Provisions:

EUH208 Contains m-xylylenediamine. May produce an allergic reaction.

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EUH208	Contains Formaldehyde, oligomeric reaction products with phenol. May produce an allergic reaction.
EUH208	Contains triethylenetetramine. May produce an allergic reaction.
EUH208	Contains 3-aminopropyldimethylamine. May produce an allergic reaction.
EUH208	Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.
EUH208	Contains fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z). May produce an allergic reaction.
EUH208	Contains Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

Contains

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fatty acids C18 unsat, reaction products with triethylenetetramine

2,4,6-tris(dimethylaminomethyl)phenol FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH BISPHENOL A, EPICHLOROHYDRIN, GLYCIDYL TOLYL ETHER AND TRIETHYLENETETRAMINE

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEPROOF ONE COAT comp. B

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10 - <20 %	Fatty acids C18 unsat, reaction products with triethylenetetramine	CAS:1226892- 44-9, 68919-79- 9 EC:629-765-4	Skin Sens. 1A, H317; Skin Corr. 1C, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119490750-36-xxxx
≥10 - <20 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057- 00-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Irrit. 2, H319	01-2119492630-38-XXXX
≥10 - <20 %	2,4,6- tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9 Index:603-069- 00-0	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	01-2119560597-27-XXXX
≥5 - <10 %	FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH BISPHENOL A, EPICHLOROHYDRIN, GLYCIDYL TOLYL ETHER AND TRIETHYLENETETRAMINE	CAS:186321-96- 0 EC:606-078-8	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
≥2.5 - <5 %	3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS:2855-13-2 EC:220-666-8 Index:612-067- 00-9	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	01-2119514687-32-xxxx
			Specific Concentration Limits: $C \ge 0.001\%$: Skin Sens. 1A H317	
			Acute Toxicity Estimate: ATE - Oral: 1030mg/kg bw	

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≥2.5 - <5 %	m-xylylenediamine	CAS:1477-55-0 EC:216-032-5	Acute Tox. 4, H302; Acute Tox. 4, H332; Aquatic Chronic 3, H412; Skin Corr. 1B, H314; Skin Sens. 1B, H317, EUH071	01-2119480150-50-XXXX
≥2.5 - <5 %	Formaldehyde, oligomeric reaction products with phenol	CAS:9003-35-4 EC:500-005-2	Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
≥1 - <2.5 %	triethylenetetramine	CAS:90640-67- 8, 112-24-3 EC:292-588-2	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	01-2119487919-13-XXXX
≥1 - <2.5 %	Salicylic acid	CAS:69-72-7 EC:200-712-3 Index:607-732- 00-5	Acute Tox. 4, H302; Eye Dam. 1, H318; Repr. 2, H361	01-2119486984-17-XXXX
≥0.49 - <1 %	3-aminopropyldimethylamine	CAS:109-55-7 EC:203-680-9 Index:612-061- 00-6	Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Eye Dam. 1, H318	01-2119486842-27-XXXX
≥0.25 - <0.49 %	N-(3- (trimethoxysilyl)propyl) ethylenediamine	CAS:1760-24-3 EC:217-164-6	Acute Tox. 4, H332; Eye Dam. 1, H318; STOT RE 2, H373; Skin Sens. 1B, H317	01-2119970215-39
≥0.1 - <0.25 %	fatty acids, C-18, unsatd. trimers, compd. with 9-octadecen-1-amine, (Z)		Acute Tox. 4, H302; Skin Sens. 1, H317; STOT RE 2, H373; Aquatic Chronic 2, H411	01-2119971821-33
≥0.1 - <0.25 %	Fatty acids, tall-oil, compds. with oleylamine	CAS:85711-55-3 EC:288-315-1	Eye Dam. 1, H318; Skin Sens. 1A, H317; STOT RE 2, H373	01-2119974148-28-0000

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

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5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Community Occupational Exposure Limits (OEL)			
	OEL Type	Country	Occupational Exposure Limit
benzyl alcohol CAS: 100-51-6	National	FINLAND	Long Term: 45 mg/m3 - 10 ppm
	National	POLAND	Long Term: 240 mg/m3
	DFG	GERMANY	Ceiling - Short Term: 44 mg/m3 - 10 ppm
	National	GERMANY	Long Term: 22 mg/m3 - 5 ppm
	NDS	POLAND	Long Term: 240 mg/m3
	National	CZECH REPUBLIC	Long Term: 40 mg/m3
	National	LATVIA	Long Term: 5 mg/m3
	National	CZECH REPUBLIC	Ceiling - Short Term: 80 mg/m3
	National	BULGARIA	Long Term: 5 mg/m3
	National	LITHUANIA	Long Term: 5 mg/m3
	National	SLOVENIA	Long Term: 22 mg/m3 - 5 ppm; Short Term: 44 mg/m3 - 10 ppm
m-xylylenediamine CAS: 1477-55-0	ACGIH		Ceiling - Short Term: 0.1 mg/m3 Skin - Eye, skin, and GI irr
	National	FINLAND	Short Term: 0.1 mg/m3

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FINLAND, takvärde, hud

National NORWAY Ceiling - Short Term: 0.1 mg/m3

T: Ceiling value is an instantaneous value that indicates the maximum concentration of

a chemical in the breathing zone that should not be exceeded

National AUSTRIA Long Term: 0.1 mg/m3; Short Term: 0.1 mg/m3

ACGIH Ceiling - Short Term: 0.1 mg/m3

ACGIH Skin - potential significant contribution to overall exposure by the cutaneous route; eye,

gastrointestinal and skin irritation

National FRANCE Short Term: 0.1 mg/m3

National DENMARK Ceiling - Short Term: 0.1 mg/m3 - 0.02 ppm

National FINLAND Ceiling - Short Term: 0.1 mg/m3

Malaysi MALAYSIA Skin notation

a OEL

Malaysi MALAYSIA

Ceiling - Short Term: 0.1 mg/m3

a OEL

National PORTUGAL Ceiling - Short Term: 0.1 mg/m3

National SLOVENIA Long Term: 0.1 mg/m3

ACGIH Ceiling - Short Term: 0.1 mg/m3

ACGIH Skin - potential significant contribution to overall exposure by the cutaneous route; eye,

gastrointestinal and skin irritation

National NORWAY Ceiling - Short Term: 0.1 mg/m3 **ACGIH** Ceiling - Short Term: 0.018 ppm

Predicted No Effect Concentration (PNEC) values

Exposure Route: Fresh Water; PNEC Limit: 1 mg/l benzyl alcohol

CAS: 100-51-6

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 5.27 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.527 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 39 mg/l

Exposure Route: Soil; PNEC Limit: 0.45 mg/kg

Exposure Route: Intermittent release; PNEC Limit: 2.3 mg/l

3-aminomethyl-3,5,5-

trimethylcyclohexylamine CAS: 2855-13-2

Exposure Route: Fresh Water; PNEC Limit: 0.06 mg/l

Exposure Route: Marine water; PNEC Limit: 0.006 mg/l Exposure Route: Intermittent release; PNEC Limit: 0.23 mg/l Exposure Route: Freshwater sediments; PNEC Limit: 5.784 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.578 mg/kg

Exposure Route: Soil; PNEC Limit: 1.121 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.18 mg/l

m-xylylenediamine CAS: 1477-55-0

Exposure Route: Fresh Water; PNEC Limit: 0.094 mg/kg

Exposure Route: Marine water; PNEC Limit: 0.0094 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0.43 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.043 mg/kg Exposure Route: Intermittent release; PNEC Limit: 0.152 mg/l

Exposure Route: Soil; PNEC Limit: 0.045 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l

triethylenetetramine CAS: 90640-67-8, 112Exposure Route: Marine water sediments; PNEC Limit: 0.123 mg/kg

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Exposure Route: Freshwater sediments; PNEC Limit: 2.08 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 8 mg/l

Salicylic acid Exposure Route: Fresh Water; PNEC Limit: 0.2 mg/l

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Exposure Route: Intermittent release; PNEC Limit: 1 mg/l Exposure Route: Marine water; PNEC Limit: 0.02 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.42 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.14 mg/kg

Exposure Route: Soil; PNEC Limit: 0.16 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 162 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.0535 mg/l

aminopropyldimethylamin

CAS: 109-55-7

Exposure Route: Marine water; PNEC Limit: 0.00535 mg/l

Derived No Effect Level (DNEL) values

benzyl alcohol CAS: 100-51-6 Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 4 mg/kg

Exposure Route: Human Inhalation: Exposure Frequency: Short Term, systemic effects

Worker Industry: 110 mg/m3; Consumer: 27 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 22 mg/m3; Consumer: 5.4 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Industry: 40 mg/kg; Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 8 mg/kg; Consumer: 4 mg/kg

2,4,6tris

(dimethylaminomethyl)

phenol

CAS: 90-72-2

3-aminomethyl-3,5,5-

trimethylcyclohexylamine Worker Industry: 20.1 mg/m3

CAS: 2855-13-2

m-xylylenediamine

CAS: 1477-55-0

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 0.33 mg/kg

Worker Industry: 0.31 mg/m3

Exposure Route: Human Inhalation

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 1.2 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0.2 mg/m3

triethylenetetramine CAS: 90640-67-8, 112-

24-3

CAS: 69-72-7

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 5.38 mg/l

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Professional: 0.57 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Consumer: 1.6 mg/l

Salicylic acid Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 16 mg/m3; Consumer: 0.2 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

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Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 1 mg/kg

3- Exposure Route: Human Inhalation aminopropyldimethylamin Worker Industry: 9.8 mg/m3

CAS: 109-55-7

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min. Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Appearance: liquid Color: Yellow

Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: Not available

Flammability: N.A.

Lower and upper explosion limit: Not available

Flash point: 62 °C (144 °F)

Auto-ignition temperature: Not available Decomposition temperature: Not available

pH: 11.00

Viscosity: 4,250.00 cPs

Kinematic viscosity: Not available Solubility in water: partly soluble

Solubility in oil: soluble

Partition coefficient (n-octanol/water): Not available

Vapour pressure: Not available Relative density: 1.35 g/cm3 Vapour density: Not available **Particle characteristics:** Particle size: Not available

9.2. Other information

Miscibility: Not available Conductivity: Not available Explosive properties: ==

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Corr. 1B(H314) c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318) d) respiratory or skin sensitisation The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

benzyl alcohol a) acute toxicity LC50 Inhalation Mist Rat = 11 mg/l 4h

LD50 Oral Rat = 1230 mg/kg

g) reproductive toxicity NOAEL Rat = 1072 mg/m3

2,4,6- a) acute toxicity LD50 Oral Rat = 2169 mg/kg

tris

(dimethylaminomethyl)

phenol

LD50 Skin Rat > 1 ml/kg

3-aminomethyl-3,5,5- a) acute toxicity ATE - Oral: 1030 mg/kg bw

trimethylcyclohexylamine

LC50 Inhalation Dust Rat > 5.01 mg/l 4h

LD50 Oral Rat = 1030 mg/kg LD50 Skin Rat > 2000 mg/kg

m-xylylenediamine a) acute toxicity LD50 Oral Mouse = 930 mg/kg

LD50 Skin Rabbit = 2000 mg/kg

LC50 Inhalation Mist Rat = 1.34 mg/l 4h

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LC50 Inhalation Rat = 700 ppm 1h

triethylenetetramine a) acute toxicity LD50 Skin Rabbit = 1465 mg/kg

LD50 Oral Rat = 1716 mg/kg

Salicylic acid a) acute toxicity LC50 Inhalation Rat > 0.9 mg/l 1h

> LD50 Oral Rat = 891 mg/kg LD50 Skin Rabbit > 2000 mg/kg

LD50 Skin Rat > 2 g/kg

LC50 Inhalation Rat > 900 mg/m3 1h

LD50 Oral Rat = 891 mg/kg LD50 Skin Rat > 2 g/kg

3a) acute toxicity

aminopropyldimethylamin

LD50 Oral Rat = 1600 mg/kg

LD50 Skin Rat = 2139 mg/kg

N-(3a) acute toxicity

(trimethoxysilyl)propyl) ethylenediamine

LD50 Oral Rat = 2413 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

List of Eco-Toxicological properties of the components

Component Ident. Numb. **Ecotox Data**

benzyl alcohol CAS: 100-51-6 - a) Aquatic acute toxicity: EC50 Daphnia = 230 mg/L 48

EINECS: 202-859-9 - INDEX: 603-057-00-5

> a) Aquatic acute toxicity: LC50 Fish = 770 mg/L 1 a) Aquatic acute toxicity: EC50 Algae = 770 mg/L 72

a) Aquatic acute toxicity: LC50 Fish = 460 mg/L 96

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 460 mg/L 96h

2,4,6-CAS: 90-72-2 a) Aquatic acute toxicity: LC50 Fish = 175 mg/L 96h

tris(dimethylaminomethyl)phenol EINECS: 202-013-9 - INDEX:

603-069-00-0

a) Aquatic acute toxicity: EC50 Algae = 46.7 mg/L 72h

a) Aquatic acute toxicity: NOEC Algae = 25.1 mg/L 72h

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH BISPHENOL A,

TRIETHYLENETETRAMINE

3-aminomethyl-3,5,5-

96-0 - EINECS: 606-078-8

CAS: 186321-

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 1.806 mg/L 96h ECHÁ

EPICHLOROHYDRIN, GLYCIDYL **TOLYL ETHER AND**

CAS: 2855-13-2 a) Aquatic acute toxicity: LC50 Fish = 110 mg/L 96

- EINECS: 220trimethylcyclohexylamine

Print date 14/04/2023 **Production Name** MAPEPROOF ONE COAT comp. B Page n. 9 of 666-8 - INDEX: 612-067-00-9

a) Aquatic acute toxicity: EC50 Daphnia = 23 mg/L 48

a) Aquatic acute toxicity: EC50 Daphnia = 388 mg/L 48

a) Aquatic acute toxicity: EC50 Algae > 50 mg/L 72

b) Aquatic chronic toxicity: NOEC Daphnia = 3 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 14.6 mg/L 48h EPA a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 37 mg/L

72h IUCLID

m-xylylenediamine

CAS: 1477-55-0 a) Aquatic acute toxicity: EC50 Algae = 20 mg/L 72h

- EINECS: 216-

032-5

a) Aquatic acute toxicity: EC50 Daphnia = 15.2 mg/L 48h

a) Aquatic acute toxicity: LC50 Fish Oryzias latipes = 87.6 mg/L 96h ECHA

triethylenetetramine

CAS: 90640-67- a) Aquatic acute toxicity: EC50 Daphnia = 31.1 mg/L 48h

8, 112-24-3 -EINECS: 292-

588-2

Salicylic acid

CAS: 69-72-7 -

a) Aquatic acute toxicity: EC50 Daphnia = 870 mg/L 48

EINECS: 200-712-3 - INDEX: 607-732-00-5

a) Aquatic acute toxicity: LC50 Fish = 90 mg/L

a) Aquatic acute toxicity: EC50 Algae > 100 mg/L 72

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 870 mg/L 48h EPA

3-aminopropyldimethylamine

CAS: 109-55-7 - a) Aquatic acute toxicity: EC50 Bacteria > 1000 mg/L 0.5

EINECS: 203-680-9 - INDEX: 612-061-00-6

> a) Aquatic acute toxicity: EC50 Bacteria = 95 mg/L 17 a) Aquatic acute toxicity: LC50 Fish = 122 mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 59.5 mg/L 48h

IUCLID

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 56.2 mg/L

72h IUCLID

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 57.5 mg/L

96h IUCLID

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

NΔ

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

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Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number or ID number

2735

14.2. UN proper shipping name

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylendiamine) IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylendiamine) IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (triethylenetetramine - m-xylylendiamine)

14.3. Transport hazard class(es)

ADR-Class: 8
IATA-Class: 8
IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: II IATA-Packing group: II IMDG-Packing group: II

14.5. Environmental hazards

Marine pollutant: Yes Environmental Pollutant: Yes IMDG-EMS: F-A, S-B

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A
IMDG-Stowage Note: SG35
IMDG-Subsidiary hazards: IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

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SECTION 15: Regulatory information

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

VOC (2004/42/EC): N.A. g/l

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonnes) to Annex 1, part 1

Product belongs to category: E2 200 500

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 70, 75

SVHC Substances:

SVHC substances not present in a concentration $\geq 0.1\%$ (w/w)

National regulations

Lagerklasse (TRGS-510): 10 - Combustible liquids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 3: extremely hazardous.

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15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
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H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Code Hazard class and hazard category Description

2.6/3 Flam. Liq. 3 Flammable liquid, Category 3

3.1/4/Dermal Acute Tox. 4 Acute toxicity (dermal), Category 4

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

(EC) Nr. 1272/2008	Classification procedur
3.2/1B	Calculation method
3.3/1	Calculation method
3.4.2/1A	Calculation method
4.1/C2	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no quarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound CSA: Chemical Safety Assessment

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CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

* Sheet model entirely changed in compliance to regulatory update.

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