# Safety Data Sheet MAPEPRIM SP comp.B

Safety Data Sheet dated: 14/06/2022 - version 4



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

#### 1.1. Product identifier

Mixture identification:

Trade name: MAPEPRIM SP comp.B

Trade code: 901551 UFI: 2VP4-V070-100K-H32U

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

Recommended use: Water-borne synthetic resin based primer

Uses advised against: 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)

Responsible: 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 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) n. 1272/2008 (CLP)

#### **Pictograms and Signal Words**



## Hazard statements:

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/protective clothing/eye protection/face protection/hearing protection/...

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

## **Special Provisions:**

EUH208 Contains Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-

ethanediamine, 2,2'-[1,4-butanediylbis (oxymethylene)]bis[oxirane], 4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis[oxirane], reaction products with Bu glycidylether and 1-[[2-(2-aminoethyl)]

ethyl]amino]- 3-phenoxy-2-propanol, acetates (salts). May produce an allergic reaction.

EUH208 Contains Amines, polyethylenepoly-, tetraethylenepentamine fraction. May produce an allergic reaction.

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

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

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## **Contains:**

2-Propenenitrile, reaction products with 3amino 1,5,5trimethylcyclohexanemethanamine

## 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: MAPEPRIM SP comp.B

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥2.5 - <5 %	Formaldehyde, polymer with N1-(2-aminoethyl)-N2-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine, 2,2'-[1,4-butanediylbis (oxymethylene)]bis[oxirane], 4,4'-(1-methylethylidene) bis(4,1-phenyleneoxymethylene)bis [oxirane], reaction products with Bu glycidylether and 1-[[2-(2-aminoethyl) ethyl]amino]- 3-phenoxy-2-propanol, acetates (salts)	CAS:180583-06-6	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
≥1 - <2.5 %	aliphatic polyamine		Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
≥0.49 - <1 %	2-Propenenitrile, reaction products with 3-amino 1,5,5-trimethylcyclohexanemethanamine	EC:292-053-3	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 2, H411	01-2120094715-47-XXXX
≥0.25 - <0.49 %	Amines, polyethylenepoly-, tetraethylenepentamine fraction	EC:292-587-7	Acute Tox. 4, H312; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 2, H411; Eye Dam. 1, H318	
≥0.1 - <0.25 %	m-xylylenediamine	CAS:1477-55-0 EC:216-032-5	Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	01-2119480150-50
≥0.1 - <0.25 %	ethylene glycol monobutyl ether	CAS:111-76-2 EC:203-905-0 Index:603-014- 00-0	Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	01-2119475108-36-XXXX
		00 0	Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw	
≥0.025 - <0.05 %	ethylene glycol	CAS:107-21-1 EC:203-473-3 Index:603-027- 00-1	Acute Tox. 4, H302; STOT RE 2, H373	01-2119456816-28-xxxx
≥0.016 - <0.025 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088- 00-6	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411	

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Specific Concentration Limits: C ≥ 0,05%: Skin Sens. 1 H317

≥0.01 formaldehyde

< 0.016 %

CAS:50-00-0 EC:200-001-8 Index:605-001-00-5

Acute Tox. 3, H311 Acute Tox. 3, 01-2119488953-20-XXXX

H331 Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350

Specific Concentration Limits:  $0.2\% \le C < 100\%$ : Skin Sens. 1 H317 5% ≤ C < 25%: Skin Irrit. 2 H315

 $5\% \le C < 25\%$ : Eye Irrit. 2 H319 5% ≤ C < 100%: STOT SE 3 H335 25% ≤ C < 100%: Skin Corr. 1B

H314

Acute:100

<0.0015 % reaction mass of: 5-chloro-2methyl-4-isothiazolin-3-one [EC

EC:611-341-5 no. 247-500-7] and 2-methyl-2H - Index:613-167isothiazol-3-one [EC no. 220-239- 00-5 6] (3:1)

CAS:55965-84-9 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 3, H301 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Acute Tox. 2, H310 Acute Tox. 2, H330 Eye Dam. 1, H318, M-Chronic: 100, M-

> Specific Concentration Limits: C ≥ 0,6%: Skin Corr. 1C H314  $0.06\% \le C < 0.6\%$ : Skin Irrit. 2 H315 C ≥ 0,6%: Eye Dam. 1 H318  $0.06\% \le C < 0.6\%$ : Eye Irrit. 2

H319

C ≥ 0,0015%: Skin Sens. 1A H317

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

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

Not available

#### 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.

## 5.3. Advice for firefighters

Use suitable breathing apparatus.

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#### **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

## List of components with OEL value

List of components with	th OEL va	alue							
	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
m-xylylenediamine CAS: 1477-55-0	ACGIH		С			0,100			Skin - Eye, skin, and GI irr
	Nationa	I FINLAND				0,1			FINLAND, takvärde, hud
	Nationa	I NORWAY	С			0,1			T: Ceiling value is an instantaneous value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded
	Nationa	I AUSTRIA		0,1		0,100			
	ACGIH		С			0,1			
	ACGIH								Skin - potential significant contribution to overall exposure by the cutaneous route; eye, gastrointestinal and skin irritation
	Nationa	I FRANCE				0,100			
	Nationa	I DENMARK	С			0,1	0,020		
	Nationa	I FINLAND	С			0,1			
	Malaysi a OEL	MALAYSIA							Skin notation

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	Malaysi a OEL	MALAYSIA	С			0,100			
		PORTUGAL	С	0.400		0,1			
		SLOVENIA		0,100					
	National	NORWAY	С			0,1			
ethylene glycol monobutyl ether CAS: 111-76-2	DFG	GERMANY	С			98	20		
	ACGIH				20				A3 - Confirmed Animal
	ACGITI				20				Carcinogen with Unknown Relevance to Humans; eye and upper respiratory tract irritation;
	National	SWEDEN		50	10				
	National	FRANCE		49	10	246	50		
	National	SPAIN		98	20	245	50		
		GREECE		120	25				
		DENMARK		98	20				
		FINLAND		98	20	250	50		
						230	30		
		GERMANY		49	10	2.46	F0		
		PORTUGAL		98	20	246	50		
		NORWAY		50	10	75	15		
		BELGIUM		98	20	246	50		
	NDS	POLAND		98					
		POLAND				200			
	CHE	SWITZERLAND				98	20		
	NDS	NETHERLANDS		100		246			
	National	CZECH REPUBLIC		100					
	National	HUNGARY		98		246			
	Malaysi a OEL	MALAYSIA		96,7	20				Skin notation;
	National	ESTONIA		98	20	246	50		
	National			98	20	246	50		
	National		С			200			
		REPUBLIC							
		SLOVAKIA	С			246			
		SLOVAKIA		98	20				
		SLOVENIA		98	20	245	50		
	National	UNITED KINGDOM		123	25	246	50		
	National	BULGARIA		98	20	246	50		
	National	ROMANIA		98	20	246	50		
	TUR	TURKEY		98	20	246	50		
	National	LITHUANIA		50	10	100	20		
	National	CROATIA		98	20	246	50		
	EU			98	20	246	50	Indicative	Possibility of significant uptake through the skin;
ethylene glycol CAS: 107-21-1	National	SWEDEN		25	10	50	20		SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND		50	20	100	40		FINLAND, hud
		NORWAY		52	20	104	40		NORWAY, H5
	EU			52	20	104	40		Skin
		NORWAY		10	10	20	20		
				-	-	-	-		

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	ACGIH		С			100			(H), A4 - URT and eye irr
	DFG	GERMANY	С			52	20		(11), A+ OKI and eye in
	ACGIH	GLRMANT	C		25	10	50		A4 - Not Classifiable as a
	ACGIN				25	10	50		Human Carcinogen; upper respiratory tract irritation
	National	SWEDEN		25	10				
	National	FRANCE		52	20	104	40		
	National	SPAIN		52	20	104	40		
	National			125	50	125	50		
	National	DENMARK		26	10				
	National	FINLAND		50	20	100	40		
		PORTUGAL		52	20	104	40		
	NDS	POLAND		15			. •		
	NDSCh			15		50			
		PORTUGAL	С			100			
	CHE	SWITZERLAND	C			52	20		
	NDS	NETHERLANDS		52		104	20		
		GERMANY		26	10	104			
	National			50	10				
	National	REPUBLIC		30					
	National	HUNGARY		52		104			
	National	SLOVAKIA		52	20				
	National	SLOVENIA		52	20	104	40		
	National	UNITED KINGDOM		10	20	104	40		
	Malaysi a OEL	MALAYSIA	С			100	39,4		
	National	ESTONIA		52	20	104	40		
	National			52	20	104	40		
	National		С			100			
		REPUBLIC							
	National	SLOVAKIA	С			104			
		CROATIA		52	20	104	40		
	EU			52	20	104		Indicative	Possibility of significant
									uptake through the skin
		BULGARIA		52	20	104	40		
		ROMANIA		52	20	104	40		
		TURKEY		52	20	104	40		
		LITHUANIA		25	10	50	20		
	ACGIH		С				0,3		DSEN, RSEN, A2 - URT and eye irr
	DFG	GERMANY	С			0,74	0,6		
	ACGIH				0,1		0,3		A1 - Confirmed Human Carcinogen;eye and upper respiratory tract irritation;upper respiratory tract cancer;dermal sensitizer; respiratory sensitizer
	National	SWEDEN		0,37	0,3				
	National			3,2,	0,5		1		
	National			0,37	0,3	0,74	0,6		
	National			2,5	2	2,5	2		
		DENMARK	С	_,5	_	0,4	0,3		
		FINLAND		0,37	0,3	U,T	0,5		
		FINLAND	С	0,57	0,5	1,2	1		
				1445555	NIM OD		_	-	0 - ( 47
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formaldehyde CAS: 50-00-0

National GERMANY		0,37	0,3			
National NORWAY		0,6	0,5			
National NORWAY	С			1,2	1	
NDS POLAND		0,37				
NDSCh POLAND				0,74		
CHE SWITZERLAND	)			0,74	0,6	
NDS NETHERLANDS	;	0,15		0,5		
National CZECH REPUBLIC		0,5				
National HUNGARY		0,6		0,6		
Malaysi MALAYSIA	С			0,37	0,3	
a OEL						
National PORTUGAL	С				0,3	
National ESTONIA		0,6	0,5	1,2	1	
National LATVIA		0,5				
National CZECH REPUBLIC	С			1		
National SLOVAKIA	С			0,74		
National SLOVAKIA		0,37	0,3			
National SLOVENIA		0,62	0,5	0,62	0,5	
National UNITED		2,5	2	2,5	2	
KINGDOM						
National BULGARIA		1,0		2,0		
National ROMANIA		1,2	1	3	2	
National LITHUANIA		0,6	0,5			
National LITHUANIA	С			1,2	1	
National CROATIA		2,5	2	2,5	2	
EU		0,37	0,3			Binding

## **Biological Exposure Index**

	Value	UoM	Medium	<b>Biological Indicator</b>	Sampling Period
ethylene glycol monobutyl ether		MGGCREAT	Urine	Butoxyacetic acid ( BAA )	End of turn

CAS: 111-76-2

centration	(PNEC) values	
PNEC Limit	<b>Exposure Route</b>	<b>Exposure Frequency Remark</b>
0,00992 mg/l	Fresh Water	
0,00099 mg/l	Marine water	
0,992 mg/l	Intermittent release	
96,97 mg/kg	Freshwater sediments	
9,98 mg/kg	Marine water sediments	
4,65 mg/l	Microorganisms in sewage treatments	
19,33 mg/kg	Soil	
0,00068 mg/l	Fresh Water	
	PNEC Limit 0,00992 mg/l 0,00099 mg/l 0,992 mg/l 96,97 mg/kg 9,98 mg/kg 4,65 mg/l 19,33 mg/kg 0,00068	Limit  0,00992 Fresh Water  0,00099 Marine water mg/l  0,992 mg/l Intermittent release 96,97 Freshwater sediments  9,98 mg/kg Marine water sediments  4,65 mg/l Microorganisms in sewage treatments  19,33 Soil mg/kg  0,00068 Fresh Water

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fraction

CAS: 90640-66-7

Derived No Effect Leve		
	0,21 mg/kg	Soil
		Marine water sediments
	2,44 mg/kg	Freshwater sediments
	0,19 mg/l	Microorganisms in sewage treatments
	4,7 mg/l	Intermittent release
	0,47 mg/l	Marine water
formaldehyde CAS: 50-00-0	0,47 mg/l	Fresh Water
	3,7 mg/kg	Marine water sediments
	<del>-</del> -	Microorganisms in sewage treatments
	10 mg/l	Intermittent release
	37 mg/kg	Freshwater sediments
	1,53 mg/kg	Soil
CAS: 107-21-1	1 mg/l	Marine water
ethylene glycol	10 mg/l	sewage treatments Fresh Water
	10 mg/l	Microorganisms in
	0,045 mg/kg	Soil
		Intermittent release
	0,043 mg/kg	Marine water sediments
	0,43 mg/kg	Freshwater sediments
	0,0094 mg/l	Marine water
m-xylylenediamine CAS: 1477-55-0	0,094 mg/kg	Fresh Water
	0,683 mg/kg	Soil
	0,343 mg/kg	Marine water sediments
	3,34 mg/kg	Freshwater sediments
	0,00068 mg/l	Marine water

Delived No Ellect L	evel. (DNEL)			
	Worker Wo Industr Pro y ion	fess mer	Exposure Route	Exposure Frequency Remark
Amines, polyethylenepoly-, tetraethylenepentami fraction CAS: 90640-66-7	ine	10 mg/kg	Human Dermal	Short Term, systemic effects
	0.7	4 0 22	U Dawe	Laws Tawas avakawais

0,74 0,32 Human Dermal Long Term, systemic mg/kg mg/kg effects

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			0,53 mg/kg	Human	Oral	Long Term, systemic effects
		0,00129 mg/l	0,00038 mg/l	Human	Inhalation	Long Term, systemic effects
m-xylylenediamine CAS: 1477-55-0	0,33 mg/kg			Human	Dermal	Long Term, systemic effects
	1,2 mg/m3			Human	Inhalation	Long Term, systemic effects
	0,2 mg/m3			Human	Inhalation	Long Term, local effects
ethylene glycol CAS: 107-21-1	106 mg/kg		53 mg/kg	Human	Dermal	Long Term, systemic effects
			53 mg/kg	Human	Oral	Long Term, systemic effects
	35 mg/m3		7 mg/m3	Human	Inhalation	Long Term, local effects
formaldehyde CAS: 50-00-0	1 mg/m3			Human	Inhalation	Short Term, local effects
	240 mg/kg		102 mg/kg	Human	Dermal	Long Term, systemic effects
	9 mg/m3		3,2 mg/m3	Human	Inhalation	Long Term, systemic effects
	0,037 mg/cm2		0,012 mg/cm2		Dermal	Long Term, local effects
	0,5 mg/m3		0,1 mg/m3	Human	Inhalation	Long Term, local effects
			4,1 mg/kg	Human	Oral	Long Term, systemic effects

## 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: white Odour: ammonia

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Odour threshold: Not available

Melting point / freezing point: Not available

Initial boiling point and boiling range: 100 °C (212 °F)

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: Not available

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

pH: 10.00

Viscosity: 2,300.00 cPs

Kinematic viscosity: Not available Solubility in water: dispersible Solubility in oil: insoluble

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

Vapour pressure: Not available Relative density: 1.05 g/cm3 Vapour density: Not available Particle characteristics: Particle size: Not available

#### 9.2. Other information

Miscibility: Not available
Conductivity: Not available
Explosive properties: ==
No other relevant information

## **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 mixture:

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

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

g) reproductive toxicity Not classified

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

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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:

aliphatic polyamine a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rabbit > 2000 mg/kg

2-Propenenitrile, reaction a) acute toxicity

products with 3-amino

1,5,5-

trimethylcyclohexanemet

hanamine

LD50 Oral Rat = 2600 mg/kg

Amines,

polyethylenepoly-, tetraethylenepentamine

fraction

a) acute toxicity LD50 Oral Rat = 3250 mg/kg

LD50 Skin Rabbit > 1000 mg/kg

d) respiratory or skin

sensitisation

Skin Sensitization Rabbit Positive

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 LC50 Inhalation Rat = 700, ppm 1h

ethylene glycol monobutyl a) acute toxicity

ether

ATE - Oral: 1200 mg/kg bw

LD50 Oral Guineapig = 1414, mg/kg

ethylene glycol a) acute toxicity LC50 Inhalation Rat > 2,5 mg/l 6h

LD50 Skin Rat > 3500, mg/kg

1,2-benzisothiazol-3(2H)- a) acute toxicity

one; 1,2-benzisothiazolin-

3-one

LD50 Oral Rat = 670, mg/kg

formaldehyde a) acute toxicity LD50 Oral Rat = 700 mg/kg

LC50 Inhalation Rat = 0,578 mg/l LD50 Skin Rabbit = 270 mg/kg LD50 Skin Rabbit = 270 mg/kg LC50 Inhalation Rat = 0,578 mg/l 4h

LD50 Oral Rat = 100 mg/kg

reaction mass of: 5- a) acute toxicity

chloro-2-methyl-4isothiazolin-3-one [EC no. 247-500-7] and 2methyl-2H -isothiazol-3one [EC no. 220-239-6] (3:1) LC50 Inhalation Rat = 2,36 mg/l 4h

LD50 Skin Rabbit = 660, mg/kg LD50 Oral Rat = 53, mg/kg

## 11.2 Information on other hazards

#### **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >=0.1%

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## **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)

7 - EINECS: 292-053-3	Ecotox Infos  a) Aquatic acute toxicity: EC50 Algae = 9,92 mg/L 72  b) Aquatic chronic toxicity: NOEC Algae = 8,11 mg/L 72  a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48  a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96  a) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48  b) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48
7 - EINECS: 292-053-3 CAS: 90640-66- 7 - EINECS: 292-587-7 - INDEX: 612-	b) Aquatic chronic toxicity: NOEC Algae = 8,11 mg/L 72 a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48 a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96  a) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48
7 - EINECS: 292-587-7 - INDEX: 612-	<ul> <li>a) Aquatic acute toxicity: EC50 Daphnia &gt; 100 mg/L 48</li> <li>a) Aquatic acute toxicity: LC50 Fish &gt; 100 mg/L 96</li> <li>a) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48</li> </ul>
7 - EINECS: 292-587-7 - INDEX: 612-	<ul> <li>a) Aquatic acute toxicity: LC50 Fish &gt; 100 mg/L 96</li> <li>a) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48</li> </ul>
7 - EINECS: 292-587-7 - INDEX: 612-	a) Aquatic acute toxicity: EC50 Daphnia = 24,1 mg/L 48
	a) Aquatic aguta tayigity ( ECEO Algae > 3.1 mg/l 73
	a) Aquatic acute toxicity: EC50 Algae > 2,1 mg/L 72
	a) Aquatic acute toxicity: NOEC Algae = 0,5 mg/L
CAS: 1477-55-0 - EINECS: 216- 032-5	a) Aquatic acute toxicity: EC50 Algae = 20 mg/L 72h
	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
CAS: 111-76-2 - EINECS: 203- 905-0 - INDEX: 603-014-00-0	a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 1490 mg/L 96h EPA
	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 1000 mg/L 48h EPA
	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 2950 mg/L 96h IUCLID
CAS: 107-21-1 - EINECS: 203- 473-3 - INDEX: 603-027-00-1	a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48
	a) Aquatic acute toxicity: EC50 Algae > 100 mg/L 96
	a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96
	b) Aquatic chronic toxicity : NOEC Fish $> 100 \text{ mg/L} - 7 \text{ d}$
	b) Aquatic chronic toxicity : NOEC Daphnia $> 100 \text{ mg/L} - 7 \text{ d}$
	b) Aquatic chronic toxicity: NOEC Algae > 100 mg/L 72
	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = $41000 \text{ mg/L} 96\text{h}$ IUCLID
	a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 14 mL/L 96h EPA
	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 27540 mg/L 96h EPA
	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = $40761 \text{ mg/L} 96\text{h}$ IUCLID
( E & C E &	CAS: 111-76-2 - EINECS: 203-905-0 - INDEX: 503-014-00-0  CAS: 107-21-1 - EINECS: 203-473-3 - INDEX:

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IÚCLÍD

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 40000 mg/L 96h

a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 16000 mg/L 96h

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 46300 mg/L 48h

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 6500

mg/L 96h IUCLID

1,2-benzisothiazol-3(2H)-one; 1,2-CAS: 2634-33-5 a) Aquatic acute toxicity: LC50 Fish = 2,15 mg/L

benzisothiazolin-3-one

- EINECS: 220-120-9 - INDEX: 613-088-00-6

b) Aquatic chronic toxicity: NOEC Algae = 0,0403 mg/L 72h

b) Aquatic chronic toxicity: EC50 Algae = 0,11 mg/L 72h

b) Aquatic chronic toxicity: EC10 Algae = 0,04 mg/L 72h b) Aquatic chronic toxicity: EC50 Daphnia = 3,27 mg/L 48h

NOEC Daphnia = 1,2 mg/L 21d

formaldehyde CAS: 50-00-0 -

EINECS: 200-001-8 - INDEX: 605-001-00-5

a) Aquatic acute toxicity: LC50 Fish = 41 mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia = 42 mg/L 24

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 22,6 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1510  $\mu$ g/L 96h

a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio = 41 mg/L 96h IUCLID

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 0,032 mL/L 96h

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 100 mg/L 96h EPA

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23,2 mg/L 96h EPA

a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 2 mg/L 48h **IUCLID** 

a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 11,3 mg/L 48h EPA

reaction mass of: 5-chloro-2methyl-4-isothiazolin-3-one [EC 9 - EINECS: no. 247-500-7] and 2-methyl-2H - 611-341-5 isothiazol-3-one [EC no. 220-239- INDEX: 613-6] (3:1) 167-00-5

CAS: 55965-84- a) Aquatic acute toxicity: EC50 Daphnia = 0,12 mg/L 48

a) Aquatic acute toxicity: LC50 Fish = 0,22 mg/L 96

a) Aquatic acute toxicity: EC50 Algae = 0,048 mg/L 72

b) Aquatic chronic toxicity: NOEC Algae = 0,0012 mg/L 72

b) Aquatic chronic toxicity: NOEC Fish = 0,098 mg/L - 28 d

b) Aquatic chronic toxicity: NOEC Daphnia = 0,004 mg/L - 21 d

## 12.2. Persistence and degradability

NΔ

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

NΑ

#### 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

3083

#### 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine) IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine) IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aliphatic polyamine)

#### 14.3. Transport hazard class(es)

ADR-Class: 9
IATA-Class: 9
IMDG-Class: 9

## 14.4. Packing group

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

## 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Road and Rail ( ADR-RID ):

ADR-Label: 9

ADR-Hazard identification number: NA ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

### Air ( IATA ):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea ( IMDG ):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-EMS: F-A, S-F

## 14.7. Maritime transport in bulk according to IMO instruments

Not Applicable

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 I or less for

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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): 5,6 (A+B) g/I

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)

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

Products belongs to category E2 200

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

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: 28, 72, 75

## **SVHC Substances:**

Code

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

#### German Water Hazard Class (WGK)

Class 2: hazardous for water.

Description

#### 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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

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	,	, ,
H400	Very toxic to aquatic life.	
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
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), 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
3.2/2	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
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
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

May cause damage to organs through prolonged or repeated exposure if swallowed.

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

(EC) Nr. 1272/2008	Classification procedure	
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.

Chronic (long term) aquatic hazard, category 2

Chronic (long term) aquatic hazard, category 3

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

Main bibliographic sources:

4.1/C2

4.1/C3

H350

H373

May cause cancer.

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 guarantee 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.

Aquatic Chronic 2

Aquatic Chronic 3

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.

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CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment 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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