## Safety Data Sheet ULTRABOND P 990 1K

Safety Data Sheet dated: 14/06/2022 - version 3



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

#### 1.1. Product identifier

Mixture identification:

Trade name: ULTRABOND P 990 1K

Trade code: 902444 UFI: HSC1-0087-6007-337C

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

Recommended use: Polyurethane-based adhesive

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)

Eye Dam. 1 Causes serious eye damage.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2 The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

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

## **Pictograms and Signal Words**



Danger

#### **Hazard statements:**

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## **Precautionary statements:**

P261 Avoid breathing mist/vapours/spray.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:** 

EUH204 Contains isocyanates. May produce an allergic reaction.

**Contains:** 

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diphenylmethane-4,4'-diisocyanate

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

As from 24 August 2023 adequate training is required before industrial or professional use.

#### 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: ULTRABOND P 990 1K

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥5 - <10 %	calcium oxide		STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥2.5 - <5 %	Benzene, mono-C10-13-alkyl derivs., distn. residues	CAS:84961-70-6 EC:284-660-7	Asp. Tox. 1, H304	01-2119485843-26-XXXX
≥0.49 - <1 %	diphenylmethane-4,4'-diisocyanate	ECAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 2, H373 Carc. 2, H351	01-2119457014-47-XXXX
			Specific Concentration Limits: $0,1\% \le C < 100\%$ : Resp. Sens. 1 H334 $5\% \le C < 100\%$ : Skin Irrit. 2 H315 $5\% \le C < 100\%$ : Eye Irrit. 2 H319 $5\% \le C < 100\%$ : STOT SE 3 H335	
≥0.016 - <0.025 %	phosphoric acid %	CAS:7664-38-2 EC:231-633-2 Index:015-011- 00-6	Met. Corr. 1, H290 Eye Dam. 1, H318 Acute Tox. 4, H302 Skin Corr. 1B, H314  Specific Concentration Limits: $C \ge 25\%$ : Skin Corr. 1B H314 $10\% \le C < 25\%$ : Skin Irrit. 2 H315 $10\% \le C < 25\%$ : Eye Irrit. 2 H319	01-2119485924-24-XXXX

## **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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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.

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

Eye irritation

Eye damages

#### 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.

#### **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

OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour Note
NDC			2				

calcium oxide NDS 2

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	NDSCh		6				
	ACGIH		2				URT irr
	National SWEDEN		1		2,5		SWEDEN, Short-term value, 15 minutes average value
	National FINLAND		2				
	National NORWAY		2				NODWAY T
					4		NORWAY, T
	National NORWAY		2		4		
	DFG GERMANY	С	2		2		
	ACGIH		2				upper respiratory tract irritation
	National SWEDEN		1				
	National FRANCE		2				
	National SPAIN		1		4		
	National GREECE		1		4		
	National DENMARK		1				
	National GERMANY		1				
	National PORTUGAL		2				
	National BELGIUM		2				
	NDS POLAND		2				
	NDSCh POLAND				6		
	CHE SWITZERL	AND			2		
	NDS NETHERLA		1		4		
	National CZECH REPUBLIC		1				
	National HUNGARY		1		4		
	Malaysi MALAYSIA a OEL		2				
	National ESTONIA		1		4		
	National LATVIA		1		4		
	National CZECH REPUBLIC	С			4		
	National SLOVAKIA		5				
	National SLOVENIA		5		5		
	National UNITED		1		4		
	KINGDOM		1		4		
	National BULGARIA		1		4		
	National ROMANIA		1		4		
	National LITHUANIA	١	1		4		
	National CROATIA		1		4		
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	National NORWAY		0,050	0,005		0,010	A 4
	SUVA		0,020		0,020		
	National SWEDEN	С	0,030	0,002	0,050	0,005	SWEDEN, Ceiling limit value
	NDS		0,030				-
	NDSP		0,090				
	ACGIH			0,005			Resp sens
	National POLAND		0,030	•	0,090		•
	National AUSTRIA		0,050	0,005	0,100	0,010	
	DFG GERMANY	С			0,050		
	ACGIH			0,005			respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
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	Nationa	SWEDEN		0,030	0,002			
	Nationa	I FRANCE		0,100	0,010	0,200	0,020	
	Nationa	I SPAIN		0,052	0,005			
	Nationa	I DENMARK		0,050	0,005			
	Nationa	I GERMANY		0,050				
	Nationa	I PORTUGAL			0,005			
	Nationa	I BELGIUM		0,052	0,005			
	NDS	POLAND		0,030				
	NDSCh	POLAND				0,090		
	Nationa	I CZECH REPUBLIC		0,050				
	Nationa	I HUNGARY		0,05		0,050		
	Malaysi a OEL	MALAYSIA		0,051	0,005			
	Nationa	I ESTONIA		0,050	0,005	0,100	0,010	
	Nationa	I CZECH REPUBLIC	С			0,100		
	Nationa	I SLOVAKIA		0,002				
		I SLOVANIA		0,050		0,050		
		I ROMANIA		0,030		0,150		
		I LITHUANIA		0,050	0,005	0,130		
		LITHUANIA	С	0,030	0,003	0,100	0,010	
		I NORWAY	C	0,05	0,005	0,100	0,01	
phosphoric acid % CAS: 7664-38-2	DFG	GERMANY	С	0,00	0,000	4	0,02	
	ACGIH			1		3		eye, skin and upper
	7.002			_				respiratory tract irritation
	Nationa	I SWEDEN		1				
		I FRANCE		1	0,2	2	0,5	
	Nationa			1	•	2	,	
		I GREECE		1		3		
		I DENMARK		1				
		I FINLAND		1		2		
		I GERMANY		2				
	Nationa	I PORTUGAL		1		3		
	Nationa	I NORWAY		1		2		
	Nationa	I BELGIUM		1		2		
	NDS	POLAND		1				
	NDSCh	POLAND				2		
	CHE	SWITZERLAND				2		
	NDS	NETHERLANDS		1		2		
	Nationa	I CZECH REPUBLIC		1				
	Nationa	I HUNGARY		1		2		
	Malaysi a OEL	MALAYSIA		1				
	Nationa	I ESTONIA		1		2		
		I LATVIA		1		2		
	ivationa							
	Nationa		С			2		
	Nationa	I CZECH REPUBLIC	С			2		
	Nationa Nationa	CZECH REPUBLIC SLOVAKIA	С			2		
	Nationa Nationa Nationa	I CZECH REPUBLIC		1				

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National UNITED KINGDOM	1	2	
National BULGARIA	1,0	2,0	
National ROMANIA	1	2	
TUR TURKEY	1	2	
National LITHUANIA	1	2	
National CROATIA	1	2	
EU	1	2	Indicative

## **Predicted No Effect Concentration (PNEC) values**

Predicted No Effect Concentration (PNEC) values				
	PNEC Limit	<b>Exposure Route</b>	<b>Exposure Frequency Remark</b>	
calcium oxide CAS: 1305-78-8	0,49 mg/l	Fresh Water		
	0,32 mg/l	Marine water		
	3 mg/l	Microorganisms in sewage treatments		
	1080 mg/kg	Soil		
	816 mg/l	Soil		
Benzene, mono-C10-13- alkyl derivs., distn. residues CAS: 84961-70-6	0,000075 mg/l	Fresh Water		
	7,5 mg/l	Marine water		
	0,001 mg/l	Intermittent release		
	1761 mg/kg	Freshwater sediments		
	1761 mg/l	Marine water sediments		
	2 mg/l	Microorganisms in sewage treatments		
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	1 mg/l	Fresh Water		
	0,1 mg/l	Marine water		
	1 mg/kg	Soil		
	1 mg/l	Microorganisms in sewage treatments		
	10 mg/l	Intermittent release		

## **Derived No Effect Level. (DNEL)**

	Worker Worke Industr Profes y ional		Exposure Route	<b>Exposure Frequency Remark</b>
calcium oxide CAS: 1305-78-8	4 mg/m3	4 mg/m3	Human Inhalation	Short Term, local effects
	1 mg/m3	1 mg/m3	Human Inhalation	Long Term, local effects
Benzene, mono-C10-13- alkyl derivs., distn. residues CAS: 84961-70-6	96 mg/kg		Human Dermal	Long Term, systemic effects
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	50 mg/kg		Human Dermal	Short Term, systemic effects
	0,1 mg/m3		Human Inhalation	Short Term, systemic effects

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	0,1 mg/m3		Human Inhalation	Short Term, local effects
	0,05 mg/m3		Human Inhalation	Long Term, systemic effects
	0,05 mg/m3		Human Inhalation	Long Term, local effects
		25 mg/kg	Human Dermal	Short Term, systemic effects
		0,05 mg/m3	Human Inhalation	Short Term, systemic effects
		20 mg/kg	Human Oral	Short Term, systemic effects
		0,05 mg/m3	Human Inhalation	Short Term, local effects
		0,025 mg/m3	Human Inhalation	Long Term, systemic effects
		0,025 mg/m3	Human Inhalation	Long Term, local effects
	28,7 mg/cm2	17,2 mg/cm2	Human Dermal	Short Term, local effects
phosphoric acid % CAS: 7664-38-2	2 mg/m3		Human Inhalation	Short Term, local effects
	1 mg/m3	0,36 mg/m3	Human Inhalation	Long Term, local effects
	10,7 mg/m3	4,57 mg/m3	Human Inhalation	Long Term, systemic effects
		0,1 mg/kg	Human Dermal	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.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

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: paste Color: beige or brown

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Odour: Characteristic

Odour threshold: Not available

Melting point / freezing point: Not available
Initial boiling point and boiling range: Not available

Flammability: N.A.

Upper/lower flammability or explosive limits: Not available

Flash point: 100 °C (212 °F)

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

pH: Not available Viscosity: 32,000.00 cPs

Kinematic viscosity: Not available Solubility in water: Insoluble Solubility in oil: partly soluble

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

Vapour pressure: Not available Relative density: 1.50 g/cm3 Vapour density: Not available Particle characteristics: Particle size: Not available

#### 9.2. Other information

Miscibility: Not available Conductivity: Not available 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 The product is classified: Eye Dam. 1(H318) d) respiratory or skin sensitisation The product is classified: Resp. Sens. 1(H334)

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

Based on available data, the classification criteria are not met

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Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

calcium oxide a) acute toxicity LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rat > 2500 mg/kg

Benzene, mono-C10-13- a) acute toxicity

alkyl derivs., distn.

residues

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rat > 2000 mg/kg

diphenylmethane-4,4'-

diisocyanate

a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 9400 mg/kg

b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive

d) respiratory or skin

sensitisation

Skin Sensitization Skin Mouse Positive

Respiratory Sensitization Inhalation Positive

Carcinogenicity Inhalation Rat = 6, mg/m3 f) carcinogenicity 2 y g) reproductive toxicity NOAEL Inhalation Rat = 12, mg/m3 20 d

phosphoric acid ... % a) acute toxicity LD50 Skin Rabbit > 2000, mg/kg

LC50 Inhalation Rat > 3800, mg/m3 1h

LD50 Oral Rat = 2600, 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:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards

Based on available data, the classification criteria are not met

## List of components with eco-toxicological properties

**Ecotox Infos** Component Ident. Numb.

calcium oxide CAS: 1305-78-8 a) Aquatic acute toxicity: LC50 Fish = 457 mg/L 96

- EINECS: 215-

138-9

a) Aquatic acute toxicity: EC50 Daphnia = 49,1 mg/L 48

b) Aquatic chronic toxicity: NOEC Daphnia = 32 mg/L - 14 d

a) Aquatic acute toxicity: LC50 Fish = 50,6 mg/L 96

a) Aquatic acute toxicity: LC50 Daphnia = 158 mg/L 96 a) Aquatic acute toxicity: EC50 Algae = 184,57 mg/L 72

b) Aquatic chronic toxicity: NOEC Algae = 48 mg/L 72

a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID

Benzene, mono-C10-13-alkyl

derivs., distn. residues

6 - EINECS:

284-660-7

CAS: 84961-70- a) Aquatic acute toxicity: EC50 Algae > 10 mg/L 72h

a) Aquatic acute toxicity: LC50 Fish > 10000 mg/L 96h

a) Aquatic acute toxicity: EC50 Daphnia > 1,4 mg/L 48h

diphenylmethane-4,4'-diisocyanate CAS: 101-68-8 - a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96

EINECS: 202-966-0 - INDEX:

Print date 22/07/2022 **Production Name** ULTRABOND P 990 1K Page n. 9 of 13 a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24

b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d

a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72

c) Bacteria toxicity: EC50 > 100 mg/L 3

d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d

e) Plant toxicity: NOEC > 1000 mg/kg - 14 d

phosphoric acid ... % CAS: 7664-38-2 a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h

- EINECS: 231-633-2 - INDEX: 015-011-00-6

#### 12.2. Persistence and degradability

NΔ

## 12.3. Bioaccumulative potential

NΑ

## 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  $\geq$  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.

#### 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**

Not classified as dangerous in the meaning of transport regulations.

#### 14.1. UN number or ID number

Not Applicable

#### 14.2. UN proper shipping name

Not Applicable

## 14.3. Transport hazard class(es)

Not Applicable

#### 14.4. Packing group

Not Applicable

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#### 14.5. Environmental hazards

Not Applicable

#### 14.6. Special precautions for user

Not Applicable

Road and Rail ( ADR-RID ) :

ADR-Hazard identification number: NA

Not Applicable

Air ( IATA ):

Not Applicable

Sea ( IMDG ):

Not Applicable

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

Not Applicable

#### **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)

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

None

# 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: 56, 74, 75

#### **SVHC Substances:**

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

## **National regulations**

Produktregisteret Norge: 110189 Produktregistret Sverige: 658598-8 Produktregister Danmark: 2422734

MAL-kode: 00-3 (1993)

## German Water Hazard Class (WGK)

Class 1: slightly hazardous for water.

#### 15.2. Chemical safety assessment

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

## **SECTION 16: Other information**

Code	Description
H290	May be corrosive to metals.
H302	Harmful if swallowed.

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H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H334	May cause allergy or asthma symptoms or	breathing difficulties if inhaled.		
H335	May cause respiratory irritation.			
H351	Suspected of causing cancer.			
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.			
Code	Hazard class and hazard category	Description		
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1		
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4		
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4		
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1		
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		
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1		

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

(EC) Nr. 1272/2008	Classification procedu
3.3/1	Calculation method
3.4.1/1	Calculation method

May be fatal if swallowed and enters airways.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes serious eye damage.

Causes skin irritation.

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.

Skin Sensitisation, Category 1

Specific target organ toxicity — single exposure, Category 3

Specific target organ toxicity — repeated exposure, Category 2

Carcinogenicity, Category 2

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

Main bibliographic sources:

H304

H314

H315

H317

H318

3.4.2/1

3.6/2

3.8/3

3.9/2

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.

Skin Sens. 1

STOT SE 3

STOT RE 2

Carc. 2

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

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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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