# Safety Data Sheet KERAPOXY 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: KERAPOXY comp.B

Trade code: 904599 UFI: JS80-J0X0-W007-4WFT

# 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 S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel. +(39)02376731 (office hours) - Fax: +39-02-37673.214 - www.mapei.it

Responsible: sicurezza@mapei.it

### 1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819 Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveleni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveleni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

## **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 Acute 1 Very toxic to aquatic life.

Aquatic Chronic 1 Very 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**



Danger

#### **Hazard statements:**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

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### **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.

#### **Contains:**

Fatty acids C18 unsaturated, reaction products with tetraethylenepentamine

3-aminomethyl-3,5,5trimethylcyclohexylamine

N'-(3-aminopropyl)-N,N-dimethylpropane-

1,3-diamine

### 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  $\geq$  0.1%.

Other Hazards: No other hazards

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not Relevant

#### 3.2. Mixtures

Mixture identification: KERAPOXY comp.B

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number
≥75 - <100 %	9 Fatty acids C18 unsaturated, reaction products with tetraethylenepentamine	CAS:1226892- 45-0, 68410-23- 1 EC:629-725-6	Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Corr. 1C, H314; Skin Sens. 1A, H317, M-Chronic:1, M-Acute:10	
≥5 - <10 %	3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS:2855-13-2 EC:220-666-8 Index:612-067- 00-9	Acute Tox. 4, H312; Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119514687-32-xxxx
≥5 - <10 %	Phenol, styrenated	CAS:61788-44-1 EC:262-975-0	Aquatic Chronic 2, H411; Aquatic Acute 1, H400	01-2119979575-18-XXXX
≥1 - <2.5 %	N'-(3-aminopropyl)-N,N- dimethylpropane-1,3-diamine	CAS:10563-29-8 EC:234-148-4	Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1B, H317	01-2119970376-29-XXXX

# **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:

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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.

#### 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

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

Predicted No Effect Con	centration	(PNEC) values		
	PNEC Limit	<b>Exposure Route</b>	Exposure Fre	equency Remark
3-aminomethyl-3,5,5- trimethylcyclohexylamine CAS: 2855-13-2	0,06 mg/l	Fresh Water		
	0,006 mg/l	Marine water		
	0,23 mg/l	Intermittent release		
	5,784 mg/kg	Freshwater sediments		
	0,578 mg/kg	Marine water sediments		
	1,121 mg/kg	Soil		
	3,18 mg/l	Microorganisms in sewage treatments		
Phenol, styrenated CAS: 61788-44-1	0,001 mg/l	Fresh Water		
	65778 mg/kg	Marine water sediments		
	65778 mg/kg	Freshwater sediments		
	0,17 mg/l	Microorganisms in sewage treatments		
	31525 mg/kg	Soil		
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine CAS: 10563-29-8	0,0092 mg/l	Fresh Water		
CAS: 10503-29-8				
	0,00092 mg/l	Marine water		
	0,092 mg/l	Intermittent release		
	18,1 mg/l	Microorganisms in sewage treatments		
	0,0336 mg/kg	Freshwater sediments		
Derived No Effect Level	. (DNEL)			
	Worker Wo	orker Consu Expos ofess mer	ure Route	Exposure Frequenc

	Worker Worker Industr Profess y ional		Exposure Route	<b>Exposure Frequency Remark</b>
3-aminomethyl-3,5,5- trimethylcyclohexylamine CAS: 2855-13-2	20,1 mg/m3		Human Inhalation	
Phenol, styrenated CAS: 61788-44-1	11,02 mg/m3	2,717 mg/m3	Human Inhalation	Long Term, systemic effects
	6,25 mg/kg	3,125 mg/kg	Human Dermal	Long Term, systemic effects
		1,562 mg/kg	Human Oral	Long Term, systemic effects
N'-(3-aminopropyl)-N,N- dimethylpropane-1,3- diamine CAS: 10563-29-8	3,7 mg/m3	0,65 mg/m3	Human Inhalation	Long Term, systemic effects
	7,5 mg/m3		Human Inhalation	Short Term, systemic effects

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0,65 Long Term, local 3,7 **Human Inhalation** mg/m3 mg/m3 effects

0,67 **Human Dermal** Long Term, systemic mg/kg

effects

0,2 Human Oral Long Term, systemic

mg/kg 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: light brown Odour: ammonia

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: 11.00

Viscosity: 900.00 cPs

Kinematic viscosity: Not available Solubility in water: partly soluble

Solubility in oil: soluble

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

Vapour pressure: 0.01 Relative density: 1.10 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

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### 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

The product is classified: Skin Corr. 1B(H314) b) skin corrosion/irritation 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

Not classified g) reproductive toxicity

Based on available data, the classification criteria are not met

Not classified h) STOT-single exposure

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

Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

Fatty acids C18 unsaturated, reaction a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

products with

tetraethylenepentamine

3-aminomethyl-3,5,5a) acute toxicity

trimethylcyclohexylamine

LC50 Inhalation Dust Rat > 5,01 mg/l 4h

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

Phenol, styrenated a) acute toxicity LC50 Inhalation Vapour Mouse = 158,3 mg/l 4h

> LD50 Oral Rat > 2500 mg/kg LD50 Skin Rat > 2000 mg/kg LD50 Skin Rabbit > 7940 mg/kg LC50 Inhalation Rat > 2,5 mg/l 6h

LD50 Oral Rat 2100 mg/kg

N'-(3-aminopropyl)-N,N- a) acute toxicity

dimethylpropane-1,3-

diamine

LD50 Oral Rat = 1670 mg/kg

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#### 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:

Very toxic to aquatic organisms.

Very 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 Acute 1(H400), Aquatic Chronic 1(H410)

### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS: 2855-13-2 - EINECS: 220- 666-8 - INDEX: 612-067-00-9	a) Aquatic acute toxicity: LC50 Fish = 110 mg/L 96
		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 EP/
		a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 37 mg/l 72h IUCLID
Phenol, styrenated	CAS: 61788-44- 1 - EINECS: 262-975-0	a) Aquatic acute toxicity: EC50 Daphnia = 4,6 mg/L 48
		a) Aquatic acute toxicity: EC50 Algae = 9,7 mg/L 72
		a) Aquatic acute toxicity: LC50 Fish = 5,6 mg/L 96
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	CAS: 10563-29- 8 - EINECS: 234-148-4	a) Aquatic acute toxicity: LC50 Fish = 215 mg/L 96
		a) Aquatic acute toxicity: EC50 Daphnia = 9,2 mg/L 48
		a) Aquatic acute toxicity: EC50 Algae = 21 mg/L 72
		a) Aquatic acute toxicity: LC50 Fish Danio rerio > 100 mg/L 96h ECHA
	3-aminomethyl-3,5,5-trimethylcyclohexylamine  Phenol, styrenated  N'-(3-aminopropyl)-N,N-	3-aminomethyl-3,5,5- trimethylcyclohexylamine  CAS: 2855-13-2 - EINECS: 220- 666-8 - INDEX: 612-067-00-9  Phenol, styrenated  CAS: 61788-44- 1 - EINECS: 262-975-0  N'-(3-aminopropyl)-N,N- dimethylpropane-1,3-diamine  CAS: 10563-29- 8 - EINECS:

# 12.2. Persistence and degradability

# 12.3. Bioaccumulative potential

N.A.

# 12.4. Mobility in soil

# 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

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# **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**

### 14.1. UN number or ID number

2735

# 14.2. UN proper shipping name

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

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

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

#### 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-B

#### 14.6. Special precautions for user

Road and Rail ( ADR-RID ):

ADR-Label: 8

ADR-Hazard identification number: NA

ADR-Special Provisions: 274

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

Air (IATA):

IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea ( IMDG ) :

IMDG-Stowage Code: Category A IMDG-Stowage Note: SG35 IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274

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IMDG-EMS: F-A, S-B

#### 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):

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

Upper-tier threshold (tonnes)

200

Products belongs to category E1 100

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: 75

#### **SVHC Substances:**

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

# **National regulations**

Code

Produktregisteret Norge: 52928 Produktregister Danmark: 4111657

MAL-kode: 00-5 (1993) A+B: 00-5 (1993)

# **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**

Coue	Description
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.

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Code	Hazard class and hazard category	Description
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
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
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]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.2/1B	Calculation method
3.3/1	Calculation method
3.4.2/1A	Calculation method
4.1/A1	Calculation method
4.1/C1	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 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.

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

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.

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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).

 $v P v B \colon Very \ Persistent, \ Very \ Bioaccumulative.$ 

WGK: German Water Hazard Class.

\* Sheet model entirely changed in compliance to regulatory update.

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