Safety Data Sheet ADESILEX PG 1 comp.B

Safety Data Sheet dated: 14/06/2022 - version 5



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

1.1. Product identifier

Mixture identification:

Trade name: ADESILEX PG 1 comp.B

Trade code: 900571 UFI: SQN0-W0V6-G001-2CFS

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

Recommended use: Hardener for epoxy products

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

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

Halesowen - West Midlands B62 8HD

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

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 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.

Repr. 2 Suspected of damaging fertility or the unborn child.

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



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

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.

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.

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Special Provisions:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains:

trimethylhexane-1,6-diamine

m-xylylenediamine

4-tert-butylphenol

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

None.

2.3. Other hazards

PBT, vPvB or endocrine disruptor substances present in concentration >= 0,1%:

Component Ident. Numb. Quantity Properties:

4-tert- CAS: 98-54-4 - EINECS: 202-679-0 - 67-548-EC: >=2.5 - <5 % SVHC - Endocrine disruptor

butylphenol 604-090-00-8

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: ADESILEX PG 1 comp.B

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

Concentra tion (% w/w)	Name	Ident. Numb.	Classification	Registration Number	Properties :
≥10 - <20 %	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	
≥2.5 - <5 %	4-tert-butylphenol	CAS:98-54-4 EC:202-679-0 Index:604-090- 00-8	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 1, H410; Repr. 2, H361f, M-Chronic:1	01-2119489419-21- XXXX	SVHC Endocrine disruptor
≥1 - <2.5 %	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 %	trimethylhexane-1,6-diamine	CAS:25620-58-0 EC:247-134-8	Acute Tox. 4, H302; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	01-2119560598-25- 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:

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

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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.

Exercise the greatest care when handling or opening the container.

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.

 $\label{lem:contaminated} \mbox{ Contaminated clothing should be changed before entering eating areas.}$

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 Country Type	Ceiling	_	ng Short rm Term m mg/m3	Short Term ppm	Note
m-xylylenediamine CAS: 1477-55-0	ACGIH	С		0,100		Skin - Eye, skin, and GI irr
	National FINLAND			0,1		FINLAND, takvärde, hud
	National NORWAY	С		0,1		T: Ceiling value is an
Drint data	0F/08/2022 Produce	tion None	ADECHEVE	O 1 D		Dana a 2 of :

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instantaneous value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded

	PNEC Limit	Exposur	e Route	Exposu	re Freque	ency Rema	rk	
Predicted No Effect Co	oncentrati	on (PNEC) v	alues					
	National	SLOVAKIA		0,08				
	National	SLOVENIA		0,5	0,08	2	0,32	
	CHE	SWITZERLAN	ID			1	0,16	
	National	GERMANY		0,5	0,08			
	National	DENMARK		0,5	0,08			
4-tert-butylphenol CAS: 98-54-4	DFG	GERMANY	С			1,0	0,16	
	National	NORWAY	С			0,1		
	National	SLOVENIA		0,100				
	National	PORTUGAL	С			0,1		
	Malaysi a OEL	MALAYSIA	С			0,100		
	Malaysi a OEL	MALAYSIA						Skin notation
	National	FINLAND	С			0,1		
	National	DENMARK	С			0,1	0,020	
	National	FRANCE				0,100		
	ACGIH							Skin - potential significant contribution to overall exposure by the cutaneous route;eye, gastrointestinal and skin irritation
	ACGIH		С			0,1		
	National	AUSTRIA		0,1		0,100		
								snould not be exceeded

	PNEC Limit	Exposure Route	Exposure Frequency Remark
m-xylylenediamine CAS: 1477-55-0	0,094 mg/kg	Fresh Water	
	0,0094 mg/l	Marine water	
	0,43 mg/kg	Freshwater sediments	
	0,043 mg/kg	Marine water sediments	
	0,152 mg/l	Intermittent release	
	0,045 mg/kg	Soil	
	10 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	
	(51)		

Derived No Effect Level. (DNEL)

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	Worker Worke Industr Profess y ional		Exposure Route	Exposure Frequency Remark
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
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

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: paste Color: white 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: 100,000.00 cPs Kinematic viscosity: Not available Solubility in water: partly soluble

Solubility in oil: insoluble

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

Vapour pressure: Not available Relative density: 1.55 g/cm3 Vapour density: Not available

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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

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

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity The product is classified: Repr. 2(H361)

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

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

4-tert-butylphenol a) acute toxicity LD50 Skin Rabbit = 2318 mg/kg

LD50 Oral Rat = 4000 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

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trimethylhexane-1,6-

diamine

11.2 Information on other hazards

Endocrine disrupting properties:

N.A.

SECTION 12: Ecological information

12.1. Toxicity

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

a) acute toxicity

Eco-Toxicological Information:

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

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

List of components with eco-toxicological properties

List of components with eco-toxicological properties					
Component	Ident. Numb.	Ecotox Infos			
m-xylylenediamine	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			
4-tert-butylphenol	CAS: 98-54-4 - EINECS: 202- 679-0 - INDEX: 604-090-00-8	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 4,71 mg/L 96h EPA			
		a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 6,9 mg/L 96h EPA			
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 3,9 mg/L 48h IUCLID			
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 3,4 mg/L 48h EPA			
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 11,2 mg/L 72h IUCLID			

Phenol, styrenated CAS: 61788-44- a) Aquatic acute toxicity: EC50 Daphnia = 4,6 mg/L 48

1 - EINECS: 262-975-0

> a) Aquatic acute toxicity: EC50 Algae = 9,7 mg/L 72 a) Aquatic acute toxicity: LC50 Fish = 5,6 mg/L 96

trimethylhexane-1,6-diamine CAS: 25620-58a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 29,5 mg/L

72h IUCLID 0 - EINECS:

247-134-8

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

PBT, vPvB or endocrine disruptor substances present in concentration >= 0,1%:

Component	Ident. Numb.	Quantity	Properties:
4-tert- butylphenol	CAS: 98-54-4 - EINECS: 202-679-0 - 67-548-EC: 604-090-00-8	>=2.5 - <5 %	SVHC – Endocrine disruptor

12.6 Endocrine disrupting properties

N.A.

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

14.1. UN number or ID number

2735

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: No ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

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

Air (IATA):

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

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG):

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

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IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274

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)

Products belongs to category E2 200

Upper-tier threshold (tonnes)

500

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

Restrictions related to the product: 3

Restrictions related to the substances contained: 75

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

ComponentIdent. Numb.QuantityProperties:4-tert-butylphenolCAS: 98-54-4>=2.5 - <5</td>SVHC

%

EINECS: 202-679-0 Endocrine disruptor

Index: 604-090-00-8

National regulations

Produktregisteret Norge: 110822 Produktregistret Sverige: 658461-9 Produktregister Danmark: 4147027 MAL-kode: 00-5 (1993) A+B: 5-5 (1993)

German Water Hazard Class (WGK)

2

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 respirate	ory tract.	
H302	Harmful if swallowed.		
Distribute	05/00/0000	Sand alter Mana	ADEQUEV DO 1

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3 1/4/Inhal	Acute Tox 4	Acute toxic			
Code	Hazard class and hazard category	Descriptio			
H412	Harmful to aquatic life with long lasting effects.				
H411	Toxic to aquatic life with long lasting effects.				
H410	Very toxic to aquatic life with long lasting effects.				
H400	Very toxic to aquatic life.				
H361f	Suspected of damaging fertility.				
H361	Suspected of damaging fertility or the unborn child.				
H332	Harmful if inhaled.				
H318	Causes serious eye damage.				
H317	May cause an allergic skin reaction.				
H315	Causes skin irritation.				
H314	Causes severe skin burns and eye damage.				

Code	Hazard class and hazard category	Description
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.7/2	Repr. 2	Reproductive toxicity, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

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

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
3.7/2	Calculation method
4.1/C2	Calculation method

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

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

Main bibliographic sources:

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

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

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

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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.

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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