Safety Data Sheet ADESILEX PG1 RAPIDO parte A

Safety Data Sheet dated: 04/02/2020 - version 2



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

1.1. Product identifier

Mixture identification:

Trade name: ADESILEX PG1 RAPIDO parte A

Trade code: 900565

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

Recommended use: Epoxy adhesive

Uses advised against: N.A.

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 www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)1684 299 886

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960

SECTION 2: Hazards identification





2.1. Classification of the substance or mixture

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

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

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



Warning

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

Special Provisions:

EUH208 Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight

<= 700). May produce an allergic reaction.

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EUH208 Contains 1,6-hexanediol diglycidyl ether. May produce an allergic reaction.

EUH208 Contains methyl toluene-4-sulphonate. May produce an allergic reaction.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains:

bisphenol F - epoxy resin

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

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a silica dust hazard)

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

SECTION 3: Composition/information on ingredients

3.1. Substances

NΑ

3.2. Mixtures

Mixture identification: ADESILEX PG1 RAPIDO parte A

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

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥50 - <75 %	free crystalline silica (Ø >10 μ)	CAS:14808-60-7 EC:238-878-4		
≥20 - <25 %	reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weigh <= 700)	CAS:25068-38-6 EC:500-033-5 t Index:603-074-00-8	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1,1A,1B, H317; 3 Aquatic Chronic 2, H411	01-2119456619-26-xxxx
≥2.5 - <5 %	bisphenol F - epoxy resin	CAS:9003-36-5 EC:500-006-8	Skin Irrit. 2, H315; Skin Sens. 1A, H317; Aquatic Chronic 2, H411	01-2119454392-40-XXXX
≥2.5 - <5 %	1,6-hexanediol diglycidyl ether	CAS:16096-31-4 EC:240-260-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119463471-41
≥1 - <2.5 %	methyl toluene-4-sulphonate	CAS:80-48-8 EC:201-283-5	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
≥0.25 - <0.49 %	free crystalline silica (Ø <10 μ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	

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.

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

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Eye irritation

Eye damages

Skin Irritation

Ervthema

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

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

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reaction product: 25	068-38-6	0,006	Route Fresh Water	Frequency		
	AS-No.	PNEC	Exposure	Exposure	Remark	
Predicted No Effect Conce	ntration (PNEC)	values	•		
	National	AUSTF	RIA	0,150		cancer A*
	EU	NNN		0,025		A2 (R) - Pulm fibrosis, lung
	ACGIH	NNN		0,025		(R), A2 - Pulm fibrosis, lung cancer
	National	DENM	ARK	0,100	0,200	DENMARK, respirable aerosol respirable aerosol
	National	DENM	ARK	0,3	0,600	DENMARK, inhalable aerosol inhalable aerosol
	NDS	POLAN	ND	0,300		frakcja respirabilna
	NDS	POLAN	ND	2,000		frakcja wdychalna
	National	NORW	/AY	0,100		К 7
free crystalline silica (Ø <10 μ)	National	SWED	EN	0,100		SWEDEN, respirable aerosol
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	National	BULG	ARIA	1,0		
	National	NORW	/AY	0,300		K 7
	National ACGIH	SWITZ NNN	ZERLAND	0,15 0,025		A (R), A2 - Pulm fibrosis, lung cancer
	SUVA	GERM.	ANY	0,150		50 μg/m³ (Partikel Durchmesser < 12 μm) - TRGS 906
	National	DENM	ARK	0,100		DENMARK, respirable aerosol respirable aerosol
	National	DENM	ARK	0,3		DENMARK, inhalable aerosol
free crystalline silica ($\emptyset > 10$ μ)	NDS	POLAN	ND	0,300		frakcja respirabilna

Predicted No Effect Concentration (PNEC) values						
Compon	ent	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
resin (nu		25068-38-6	0,006 mg/l	Fresh Water		
			0,0006 mg/l	Marine water		
			0,0627 mg/kg	Freshwater sediments		
			0,00627 mg/kg	Marine water sediments		
bisphenol	F - epoxy resin	9003-36-5	10 mg/l	Microorganisms in sewage treatments		
			0,003 mg/l	Fresh Water		
			0,294 mg/kg	Freshwater sediments		
			0,0003 mg/l	Marine water		
			0,0294 mg/kg	Marine water sediments		
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0,237 Soil mg/kg

1,6-hexanediol diglycidyl 16096-31-4~0,0115~ Fresh Water ether mg/l

0,00115 Marine water

mg/l

0,115 Intermittent mg/l release

0,283 Freshwater mg/kg sediments

0,0283 Marine water mg/kg sediments

0,223 Soil mg/kg

Derived No Effect Level. (DNEL)

Component		Industr		Exposure Route	Exposure Frequency Remark
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	-		Human Dermal	Short Term, systemic effects
		12,25 mg/m3		Human Inhalation	Short Term, systemic effects
		8,3 mg/kg		Human Dermal	Long Term, systemic effects
		12,25 mg/m3		Human Inhalation	Long Term, systemic effects
			3,571 mg/kg	Human Dermal	Short Term, systemic effects
			0,75 mg/kg	Human Oral	Short Term, systemic effects
			3,571 mg/kg	Human Dermal	Long Term, systemic effects
			0,75 mg/kg	Human Oral	Long Term, systemic effects
1,6-hexanediol diglycidyl ether	16096-31-4		1,7 mg/kg	Human Dermal	Short Term, systemic effects
		4,9 mg/m3		Human Inhalation	Short Term, systemic effects
			2,9 mg/m3	Human Inhalation	Short Term, systemic effects
		0,0226 mg/cm2		Human Dermal	Short Term, local effects
			0,0136 mg/cm2		Short Term, local effects
		2,8 mg/kg	1,7 mg/kg	Human Dermal	Long Term, systemic effects
		4,9 mg/m3		Human Inhalation	Long Term, systemic effects
			2,9 mg/m3	Human Inhalation	Long Term, systemic effects
		0,0226 mg/cm2		Human Dermal	Long Term, local effects

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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 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 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

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

Hygienic and Technical measures

N.A.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste grey

Odour: characteristic Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: N.A. Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: 0.01 Relative density: 1.60 g/cm3 Solubility in water: insoluble

Partition coefficient (n-octanol/water): N.A. - This product is a mixture

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Decomposition temperature: N.A.

Viscosity: 800,000.00 cPs

Explosive properties: == - No components with explosive properties

Oxidizing properties: N.A. - No component with oxidizing properties

Solid/gas flammability: N.A.

9.2. Other information

No additional 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.

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None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

free crystalline silica (Ø

a) acute toxicity

LD50 Oral > 2000 mg/kg

>10 µ)

700)

LD50 Skin > 2000 mg/kg

reaction product:

a) acute toxicity

LD50 Oral Rat > 15000 mg/kg

bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=

LD50 Skin Rabbit > 23000 mg/kg

LD50 Oral Rat = 11400 mg/kg

i) STOT-repeated exposure NOAEL Oral Rat = 50 mg/kg

NOAEL Skin Rat = 100 mg/kg

bisphenol F - epoxy resin a) acute toxicity

LD50 Oral Rat > 10000 mg/kg

LD50 Skin Rat > 2000 mg/kg

LD50 Oral Rat > 2 g/kg

i) STOT-repeated

exposure

NOAEL Oral = 250 mg/kg

1,6-hexanediol diglycidyl a) acute toxicity

ether

LC50 Oral Rat = 2900 mg/l LD50 Oral Rat 300 mg/kg

methyl toluene-4sulphonate

ne-4- a) acute toxicity

LD50 Oral Rat = 341 mg/kg

free crystalline silica (Ø $<10 \mu$)

a) acute toxicity

LD50 Oral Rat = 500 mg/kg

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- k) Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure

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SECTION 12: Ecological information

12.1. Toxicity

Component

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

Ident. Numb.

CAS: 9003-36-5 -

EINECS: 500-006-8

CAS: 16096-31-4 -

EINECS: 240-260-4

Eco-Toxicological Information:

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

List of components with eco-toxicological properties

reaction product: bisphenol-A-CAS: 25068-38-6 -EINECS: 500-033-5 -(epichlorhydrin); epoxy resin (number average molecular weight INDEX: 603-074-00-8 <=700)

a) Aquatic acute toxicity: LC50 Fish > 2 mg/L 96

a) Aquatic acute toxicity: LC50 Algae > 11 mg/L 72 a) Aquatic acute toxicity: LC50 Daphnia = 1,3 mg/L 96 b) Aquatic chronic toxicity: NOEC Daphnia = 0,3 mg/L

Ecotox Infos

a) Aquatic acute toxicity: EC50 Fish = 2,54 mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia > 1,8 mg/L 48

a) Aquatic acute toxicity: EC50 Daphnia = 2,55 mg/L 48

a) Aquatic acute toxicity: LC50 Fish = 30 mg/L 96

a) Aquatic acute toxicity: EC50 Daphnia = 47 mg/L 48 a) Aquatic acute toxicity: EC50 Algae = 23,1 mg/L 48

12.2. Persistence and degradability

N.A.

bisphenol F - epoxy resin

1,6-hexanediol diglycidyl ether

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

NΑ

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

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

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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

14.6. Special precautions for user

Road and Rail (ADR-RID): ADR exempt: No

ADR-Label: 9

ADR-Hazard identification number: 90 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 Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 969

IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-A, S-F
IMDG-MFAG: N/A

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A

These substances, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids, or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to provisions of ADR, IMDG and IATA DGR.

SECTION 15: Regulatory information

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

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

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) 2015/830

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)

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

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Products belongs to category E2 200

Upper-tier threshold (tonnes)
500

German Water Hazard Class

N.A

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: None

SVHC Substances:

No Data Available

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description					
H302	Harmful if swallowed.					
H315	Causes skin irritation.					
H317	May cause an allergic skin reaction.					
H319	Causes serious eye irritation.					
H335	May cause respiratory irritation.					
H372	Causes damage to organs through prolonged or repeated exposure .					
H411	Toxic to aquatic life with long lasting effects.					
H412	Harmful to aquatic life with long lasting effe	ects.				
Code	Hazard class and hazard category	Description				
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4				
3.2/2	Skin Irrit. 2	Skin irritation, Category 2				
3.3/2	Eye Irrit. 2	Eye irritation, Category 2				
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1				
3.4.2/1-1A-1B	Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B				
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A				
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3				
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category ${\bf 1}$				
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2				
	Aquatic emonic 2	, , , , , , , , , , , , , , , , , , , ,				
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3				

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

(EC) Nr. 1272/2008	Classification procedure		
3.2/2	Calculation method		
3.3/2	Calculation method		
3.4.2/1A	Calculation method		
4.1/C2	Calculation method		

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

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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.

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

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.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 5. FIRE-FIGHTING MEASURES
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 15. REGULATORY INFORMATION

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