Safety Data Sheet dated: 07/02/2023 - version 3



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

1.1. Product identifier

Mixture identification:

Trade name: KERAPOXY EASY DESIGN /A Trade code: 905KB9990 UFI: SJG0-J0FD-300A-DVGW

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

Recommended use: Acid-resistant epoxy grout and adhesive for ceramic tiles

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)

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Responsable: sicurezza@mapei.it
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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 Irrit. 2Causes skin irritation.Eye Irrit. 2Causes serious eye irritation.Skin Sens. 1AMay cause an allergic skin reaction.Aquatic Chronic 3Harmful to aquatic life with long lasting effects.Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 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.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Special Provisions:	
P337+P313	If eye irritation persists: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P280	Wear protective gloves/clothing and eye/face protection.
P273	Avoid release to the environment.
P264	Wash hands thoroughly after handling.
P261	Avoid breathing mist/vapours/spray.

EUH208Contains bis-[4-(2,3-epoxipropoxi)phenyl]propane. May produce an allergic reaction.EUH208Contains 1,6-Hexanediol Diglycidyl Ether. May produce an allergic reaction.

Print date

EUH208

Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

EUH205

Contains epoxy constituents. May produce an allergic reaction.

Contains

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

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

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

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

Not Relevant

3.2. Mixtures

Mixture identification: KERAPOXY EASY DESIGN /A

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥5 - <10 %	bis-[4-(2,3- epoxipropoxi)phenyl]propane	CAS:1675-54-3, 25085-99-8 EC:216-823-5 Index:603-073- 00-2	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	01-2119456619-26
			Specific Concentration Limits: C \geq 5%: Skin Irrit. 2 H315 C \geq 5%: Eye Irrit. 2 H319	
≥5 - <10 %	1,6-Hexanediol Diglycidyl Ether		Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	01-2119463471-41-0005
≥2.5 - <5 %	Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol	CAS:9003-36-5 EC:701-263-0	Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Skin Sens. 1, H317	01-2119454392-40-XXXX
≥0.49 - <1 %	Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate		Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361f	01-2119491304-40-XXXX
≥0.01 - <0.016 %	zinc pyrithione	CAS:13463-41-7 EC:236-671-3 Index:613-333- 00-7	Acute Tox. 2, H330 Acute Tox. 3, H301 STOT RE 1, H372 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Repr. 1B, H360, M-Chronic:10, M- Acute:1000	
			Acute Toxicity Estimate: ATE - Oral: 221mg/kg bw	

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

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:

Print date

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Predicted No Effect Concentration (PNEC) values

1,6-Hexanediol Diglycidyl Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l Fther CAS: 933999-84-9, 16096-31-4 Exposure Route: Fresh Water; PNEC Limit: 0,0115 mg/l Exposure Route: Freshwater sediments; PNEC Limit: 0,283 mg/kg Exposure Route: Marine water; PNEC Limit: 0,00115 mg/l Exposure Route: Marine water sediments; PNEC Limit: 0,0283 mg/kg Exposure Route: Soil; PNEC Limit: 0,223 mg/kg Formaldehyde, oligomeric Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l reaction products with 1chloro-2,3-epoxypropane and phenol CAS: 9003-36-5 Exposure Route: Fresh Water; PNEC Limit: 0,003 mg/l Exposure Route: Freshwater sediments; PNEC Limit: 0,294 mg/kg Exposure Route: Marine water; PNEC Limit: 0,0003 mg/l Exposure Route: Marine water sediments; PNEC Limit: 0,0294 mg/kg Exposure Route: Soil; PNEC Limit: 0,237 mg/kg Reaction mass of Exposure Route: Fresh Water; PNEC Limit: 0,0022 mg/l Bis(1,2,2,6,6pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate CAS: 1065336-91-5 Exposure Route: Marine water; PNEC Limit: 0,00022 mg/l Exposure Route: Freshwater sediments; PNEC Limit: 1,05 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0,11 mg/kg Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l Exposure Route: Soil; PNEC Limit: 0,21 mg/kg Exposure Route: Intermittent release; PNEC Limit: 0,009 mg/l **Derived No Effect Level (DNEL) values** 1,6-Hexanediol Diglycidyl Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 2,8 mg/kg Fther CAS: 933999-84-9, 16096-31-4 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 4,9 mg/m3 Reaction mass of Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Bis(1,2,2,6,6-Consumer: 0,18 mg/kg pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4piperidyl sebacate CAS: 1065336-91-5 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 1,27 mg/m3; Consumer: 0,31 mg/m3 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 1,8 mg/kg; Consumer: 0,9 mg/kg 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).

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: various 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: Not available Auto-ignition temperature: Not available Decomposition temperature: Not available pH: Not Relevant Viscosity: 1,000,000.00 mPA-s Kinematic viscosity: Not available Solubility in water: Insoluble Solubility in oil: soluble Partition coefficient (n-octanol/water): Not available Vapour pressure: Not available Relative density: 1.61 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

Print date

SECTION 11: Toxicological information 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

Toxicol	ogical Informati	on of the Prepar	ration			
	a) acute toxicity		Not clas	sified		
			Based o	n available data, the classification criteria are no	t met	
			The product is classified: Skin Irrit. 2(H315) The product is classified: Eye Irrit. 2(H319) The product is classified: Skin Sens. 1A(H317) Not classified			
			Based on available data, the classification criteria are not met			
	f) carcinogenicity	,	Not clas	sified		
			Based o	Based on available data, the classification criteria are not met		
	g) reproductive t	oxicity	Not classified Based on available data, the classification criteria are not met			
	h) STOT-single e	xposure	Not classified			
			Based o	n available data, the classification criteria are no	t met	
	i) STOT-repeated	l exposure	Not clas	Not classified Based on available data, the classification criteria are not met Not classified		
			Based o			
	j) aspiration haza	ard	Not clas			
			Based o	n available data, the classification criteria are no	t met	
Toxicol	ogical information	on on main com	ponents	of the mixture:		
bis-[4-(epoxipro propane	opoxi)phenyl]	a) acute toxicity		LD50 Skin Rabbit = 20 mg/kg		
				LD50 Oral Rat = 11300 µL/kg		
				LD50 Skin Rabbit = 20000 mg/kg		
1,6-Hex Ether	anediol Diglycidyl	a) acute toxicity		LD50 Oral Rat = 3010, mg/kg		
				LD50 Skin Rabbit > 4900 mg/kg		
		i) STOT-repeated	ł	NOAEL Oral = 200 mg/kg		
		exposure				
				NOAEL Inhalation = 16 mg/m3		
				-		
reactior	lehyde, oligomeric products with 1- 2,3-epoxypropane enol	a) acute toxicity		LD50 Oral Rat > 5000, mg/kg		
				LD50 Skin Rat > 2000 mg/kg		
		i) STOT-repeated	1	NOAEL Oral = 250 mg/kg		
		exposure				
Bis(1,2, pentam sebacat 1,2,2,6,	n mass of 2,6,6- ethyl-4-piperidyl) e and Methyl .6-pentamethyl-4- 'l sebacate	a) acute toxicity		LD50 Oral Rat = 3230, mg/kg		
				LD50 Skin Rat > 3170, mg/kg		
				2250 Skin Kat $>$ 31/0, Hig/Kg		
zinc pyr	ithione	a) acute toxicity		ATE - Oral: 221 mg/kg bw		
2.00 Py1		a, acate toxicity		LD50 Skin Rabbit = 100 mg/kg		
				LD50 Oral Rat = 177 mg/kg		
				LC50 Inhalation Rat 0,05 mg/l 4h		
ato	09/02/2023	Production N	lamo	KERAPOXY FASY DESIGN /A	Page	

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:

Harmful 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 3(H412)

Component	Ident. Numb.	Ecotox Data
1,6-Hexanediol Diglycidyl Ether	CAS: 933999- 84-9, 16096-31- 4 - EINECS: 618-939-5	a) Aquatic acute toxicity : EC50 Daphnia = 47 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish = 30 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 23,1 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 30 mg/L 96h ECHA
Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol	CAS: 9003-36-5 - EINECS: 701- 263-0	a) Aquatic acute toxicity : LC50 Fish = 5,7 mg/L 96h
		a) Aquatic acute toxicity: EC50 Daphnia = 2,55 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae = 1,8 mg/L 72h
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	91-5 - EINECS:	a) Aquatic acute toxicity : LC50 Fish = 0,9 mg/L 96h
		a) Aquatic acute toxicity: EC50 Algae = 1,68 mg/L 72h
		b) Aquatic chronic toxicity : NOEC Daphnia = 1 mg/L 21d
zinc pyrithione	CAS: 13463-41- 7 - EINECS: 236-671-3 - INDEX: 613- 333-00-7	G : LD50 Avian Colinus virginianus = 64 mg/kg NZ_CCID

12.2. Persistence and degradability

Component Persitence/Degradability:

Reaction mass of Bis(1,2,2,6,6- Non-readily biodegradable pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

12.3. Bioaccumulative potential

N.A.

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 >= 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

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) Regulation (EU) n. 2021/643 (ATP 16 CLP) Regulation (EU) n. 2021/849 (ATP 17 CLP) Regulation (EU) n. 2022/692 (ATP 18 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: 70, 75

SVHC Substances:

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

National regulations

Produktregister Danmark: 4111702 MAL-kode: 00-5 (1993) A+B: 00-5 (1993)

Lagerklasse (TRGS-510): 12 - Non-combustible liquids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 2: 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		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H361f	Suspected of damaging fertility.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Code	Hazard class and hazard category	Description	
3.2/2	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	
3.4.2/1A	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
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method

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.

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.

Paragraphs modified from the previous revision:

- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information