

Section 1: Identification

GHS Product identifier

Mixture identification:

Trade name: ULTRABOND P 990 1K Trade code: 902444

Recommended use of the chemical and restrictions on use

Recommended use: Polyurethane-based adhesive

Uses advised against: no data available

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Responsable: sales@mapei.com.au

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26 Police or Fire Brigade 000

Section 2: Hazard(s) identification



Classification of the Hazardous chemical

Serious eye damage, Category 1 Respiratory Sensitisation, Category 1 Causes serious eye damage.

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

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Hazard statements

nazara statements				
H318	Causes serious eye damage.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Precautionary statem	ents			
P261	Avoid breathing mist/vapours/spray.			
P280	Wear protective gloves/clothing and eye/face protection.			
P284	[In case of inadequate ventilation] wear respiratory protection.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER.			
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.			
P501	Dispose of contents/container in accordance with applicable regulations.			
Other hazards which do not result in a classification				

Other Hazards: No other hazards

Section 3: Composition and information on ingredients

Substances

no data available

Mixtures

Mixture identification: ULTRABOND P 990 1K

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	Calcium carbonate	CAS:471-34-1 EC:207-439-9		Exempted
≥5 - <10 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥0.49 - <1 %	diphenylmethane-4,4'-diisocyanate	EC:202-966-0	Acute Tox. 4, H332 Eye Irrit. 2A, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 2, H373 Carc. 2, H351 Specific Concentration Limits: $C \ge 5\%$: Skin Irrit. 2 H315 $C \ge 5\%$: Eye Irrit. 2A H319 $C \ge 5\%$: STOT SE 3 H335 $C \ge 0,1\%$: Resp. Sens. 1 H334	01-2119457014-47-XXXX

Section 4: First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Symptoms caused by exposure

Eye irritation

Eye damages

Medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Section 5: Firefighting measures

Suitable extinguishing media

None in particular. Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: no data available

Oxidizing properties: no data available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

HazChem Code/Emergency Action code

N.A.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

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.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

Section 7: Handling and storage

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.

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.

Section 8: Exposure controls and personal protection Control parameters – exposure standards, biological monitoring

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
Calcium carbonate CAS: 471-34-1	AUS	AUSTRALIA	Long Term: 10 mg/m3
	Nationa	I FRANCE	Long Term: 10 mg/m3
	Nationa	I PORTUGAL	Long Term: 10 mg/m3
	Nationa	I LATVIA	Long Term: 6 mg/m3
calcium oxide CAS: 1305-78-8	ACGIH		Long Term: 2 mg/m3 URT irr
	Nationa	I SWEDEN	Long Term: 1 mg/m3; Short Term: 2,5 mg/m3 SWEDEN, Short-term value, 15 minutes average value
	Nationa	I FINLAND	Long Term: 2 mg/m3
	Nationa	I NORWAY	Long Term: 2 mg/m3 NORWAY, T
	Nationa	I FINLAND	Long Term: 2 mg/m3
	Nationa	I NORWAY	Long Term: 2 mg/m3; Short Term: 4 mg/m3
OSHA			Long Term: 5 mg/m3
	ACGIH		Long Term: 2 mg/m3 upper respiratory tract irritation
	AUS	AUSTRALIA	Long Term: 2 mg/m3
	Nationa	I SWEDEN	Long Term: 1 mg/m3
	Nationa	I FRANCE	Long Term: 2 mg/m3

National SPAIN	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National GREECE	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National DENMARK	Long Term: 1 mg/m3
National FINLAND	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National GERMANY	Long Term: 1 mg/m3
National PORTUGAL	Long Term: 2 mg/m3
National NORWAY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National BELGIUM	Long Term: 2 mg/m3
National CZECH REPUBLIC	Long Term: 1 mg/m3
National HUNGARY	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National ESTONIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National LATVIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National CZECH REPUBLIC	Ceiling - Short Term: 4 mg/m3
National SLOVAKIA	Long Term: 5 mg/m3
National SLOVENIA	Long Term: 5 mg/m3; Short Term: 5 mg/m3
National UNITED	Long Term: 1 mg/m3; Short Term: 4 mg/m3
KINGDOM	
National UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 6 mg/m3
National UNITED KINGDOM	Long Term: 2 mg/m3; Short Term: 4 mg/m3
National BULGARIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National ROMANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National LITHUANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National CROATIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National DENMARK	Long Term: 2 mg/m3
National PORTUGAL	Long Term: 2 mg/m3; Short Term: 4 mg/m3
National BELGIUM	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National SLOVENIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National NORWAY	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm A 4
National SWEDEN	Ceiling - Long Term: 0,03 mg/m3 - 0,002 ppm; Short Term: 0,05 mg/m3 - 0,005 ppm SWEDEN, Ceiling limit value
ACGIH	Long Term: 0,005 ppm Resp sens
National POLAND	Long Term: 0,03 mg/m3; Short Term: 0,09 mg/m3
National AUSTRIA	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 mg/m3 - 0,01 ppm
ACGIH	Long Term: 0,005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
AUS AUSTRALIA	Long Term: 0,02 mg/m3; Short Term: 0,07 mg/m3
OSHA	Ceiling - Short Term: 0,2 mg/m3 - 0,02 ppm
National SWEDEN	Long Term: 0,03 mg/m3 - 0,002 ppm
National FRANCE	Long Term: 0,1 mg/m3 - 0,01 ppm; Short Term: 0,2 mg/m3 - 0,02 ppm
National SPAIN	Long Term: 0,052 mg/m3 - 0,005 ppm
National DENMARK	Long Term: 0,05 mg/m3 - 0,005 ppm
National GERMANY	Long Term: 0,05 mg/m3
National PORTUGAL	Long Term: 0,005 ppm
National BELGIUM	Long Term: 0,052 mg/m3 - 0,005 ppm
National CZECH REPUBLIC	Long Term: 0,05 mg/m3
National HUNGARY	Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3

diphenylmethane-4,4'diisocyanate CAS: 101-68-8

	National ESTONIA National CZECH REPUBLIC	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 Ceiling - Short Term: 0,1 mg/m3	mg/m3 - 0,01 ppm		
	National SLOVAKIA National SLOVAKIA National SLOVENIA National ROMANIA National LITHUANIA National LITHUANIA	Long Term: 0,002 mg/m3 Long Term: 0,03 mg/m3 Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3 Short Term: 0,15 mg/m3 Long Term: 0,05 mg/m3 - 0,005 ppm Ceiling - Short Term: 0,1 mg/m3 - 0,01 ppm			
	ACGIH	Long Term: 0,005 ppm respiratory sensitization (listed under Methylene bispher	ıyl isocyanate (MDI))		
	OSHA National NORWAY National SLOVENIA	Ceiling - Short Term: 0,2 mg/m3 - 0,02 ppm Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,0 Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,0			
Predicted No Effect Co	oncentration (PNEC) value	es			
Calcium carbonate CAS: 471-34-1	Exposure Route: Microor	janisms in sewage treatments; PNEC Limit: 100 mg/l			
calcium oxide CAS: 1305-78-8	Exposure Route: Fresh W	ater; PNEC Limit: 0,49 mg/l			
	Exposure Route: Marine v	vater; PNEC Limit: 0,32 mg/l			
	Exposure Route: Microorg	anisms in sewage treatments; PNEC Limit: 3 mg/l			
	Exposure Route: Soil; PN	EC Limit: 1080 mg/kg			
	Exposure Route: Soil; PNEC Limit: 816 mg/l				
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	Exposure Route: Fresh W	ater; PNEC Limit: 1 mg/l			
	Exposure Route: Marine v	vater; PNEC Limit: 0,1 mg/l			
	Exposure Route: Soil; PN	EC Limit: 1 mg/kg			
	Exposure Route: Microorg	anisms in sewage treatments; PNEC Limit: 1 mg/l			
	Exposure Route: Intermit	tent release; PNEC Limit: 10 mg/l			
Derived No Effect Leve	el (DNEL) values				
Calcium carbonate CAS: 471-34-1		Inhalation; Exposure Frequency: Long Term, local effects g/m3; Consumer: 1,06 mg/m3			
	Exposure Route: Human Consumer: 6,1 mg/kg	Oral; Exposure Frequency: Long Term, systemic effects			
	Exposure Route: Human Consumer: 6,1 mg/kg	Oral; Exposure Frequency: Short Term, systemic effects			
calcium oxide CAS: 1305-78-8	Exposure Route: Human Worker Industry: 4 mg/m	Inhalation; Exposure Frequency: Short Term, local effects 13; Consumer: 4 mg/m3	i		
	Exposure Route: Human Worker Industry: 1 mg/m	Inhalation; Exposure Frequency: Long Term, local effects 13; Consumer: 1 mg/m3			
diphenylmethane-4,4'- diisocyanate CAS: 101-68-8	Exposure Route: Human Worker Industry: 50 mg/	Dermal; Exposure Frequency: Short Term, systemic effect kg	ſS		
	Exposure Route: Human Worker Industry: 0,1 mg,	Inhalation; Exposure Frequency: Short Term, systemic eff /m3	fects		
	Exposure Route: Human Worker Industry: 0,1 mg,	Inhalation; Exposure Frequency: Short Term, local effects /m3			
	Exposure Route: Human Worker Industry: 0,05 m	Inhalation; Exposure Frequency: Long Term, systemic effo g/m3	ects		
	Exposure Route: Human Worker Industry: 0,05 m	Inhalation; Exposure Frequency: Long Term, local effects g/m3			
	Exposure Route: Human Consumer: 25 mg/kg	Dermal; Exposure Frequency: Short Term, systemic effect	ſS		
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Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 0,05 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 20 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Consumer: 0,05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 0,025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 0,025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects Worker Industry: 28,7 mg/cm2; Consumer: 17,2 mg/cm2

Appropriate engineering controls

no data available

Individual protection measures, such as personal protective equipment (PPE) 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; AS/NZS 2161.10:

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.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to AS/NZS 1715-1716 for information on selection and use of appropriate respiratory protection equipment. Use adequate protective respiratory equipment.

Section 9: Physical and chemical properties

Physical state: Liquid Appearance: paste Color: beige or brown Odour: Characteristic pH: no data available Melting point / freezing point: no data available Initial boiling point and boiling range: no data available Flash point: 100 °C (212 °F) Evaporation rate: no data available Flammability (Solid, Gas) no data available Lower and upper explosion limit/flammability limits: no data available Vapour pressure: no data available Vapour density: no data available Relative density: 1.50 g/cm3 Solubility in water: Insoluble Solubility in oil: partly soluble Partition coefficient (n-octanol/water): no data available Auto-ignition temperature: no data available Decomposition temperature: no data available Kinematic viscosity: no data available VOC % (Volatile Organic Compound) : 7.91 (Rule 1168) g/l

Particle characteristics:

Particle size: no data available Particle size distribution: no data available Shape and aspect ratio: no data available Specific surface area: no data available

Section 10: Stability and reactivity Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

Section 11: Toxicological information Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Serious eye damage, Category 1(H318)
d) respiratory or skin sensitisation	The product is classified: Respiratory Sensitisation, Category 1(H334)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Calcium as the nate		IDEO Oral Bath 2000 mailing	
Calcium carbonate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LC50 Inhalation Rat $> 3 \text{ mg/l}$	
		LD50 Skin Rat > 2000 mg/kg 4h	
		LD50 Oral Rat = 6450 mg/kg	
	g) reproductive toxicity	NOAEL Rat = 1000 mg/kg	
calcium oxide	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LD50 Skin Rat > 2500 mg/kg	
diphenylmethane-4,4'- diisocyanate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LD50 Skin Rabbit > 9400 mg/kg	
	b) skin corrosion/irritation	n Skin Irritant Skin Rabbit Positive	
	d) respiratory or skin sensitisation	Skin Sensitization Skin Mouse Positive	
		Respiratory Sensitization Inhalation Positive	
	f) carcinogenicity	Carcinogenicity Inhalation Rat = 6, mg/m3	2 y
	g) reproductive toxicity	NOAEL Inhalation Rat = 12, mg/m3	20 d

Section 12: Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Calcium carbonate	CAS: 471-34-1 - EINECS: 207- 439-9	c) Bacteria toxicity : NOEC Bacteria = 1000 mg/L 3
		d) Terrestrial toxicity : LC50 > 1000 mg/kg
		d) Terrestrial toxicity : NOEC = 1000 mg/kg - 28 d
		e) Plant toxicity : NOEC = 1000 mg/kg - 21 d
calcium oxide	CAS: 1305-78-8 - EINECS: 215- 138-9	a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96
		a) Aquatic acute toxicity: EC50 Daphnia = 49,1 mg/L 48
		b) Aquatic chronic toxicity: NOEC Daphnia = 32 mg/L - 14 d
		a) Aquatic acute toxicity : LC50 Fish = 50,6 mg/L 96
		a) Aquatic acute toxicity : LC50 Daphnia = 158 mg/L 96
		a) Aquatic acute toxicity: EC50 Algae = 184,57 mg/L 72
		b) Aquatic chronic toxicity : NOEC Algae = 48 mg/L 72
		a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID
diphenylmethane-4,4'-diisocyanat	e CAS: 101-68-8 - EINECS: 202- 966-0 - INDEX: 615-005-00-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72
		c) Bacteria toxicity : EC50 > 100 mg/L 3
		d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
		e) Plant toxicity : NOEC > 1000 mg/kg - 14 d
Persistence and degradability		
no data available		
Bioaccumulative potential		
no data available		
Mobility in soil		
no data available		
Other adverse effects		

no data available

Section 13: Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

no data available

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.

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.

UN number

no data available

UN proper shipping name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

ADG-Subsidiary hazards no data available

ADG-S.P.: no data available

Road and Rail (ADR-RID):

no data available

ADR-Hazard identification number: NA

Air (IATA):

no data available

Sea (IMDG):

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals. AICIS: all components are listed

Section 16: Any other relevant information

Code	Description			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.	Causes serious eye irritation.		
H332	Harmful if inhaled.			
H334	May cause allergy or asthma symptoms o	r breathing difficulties if inhaled.		
H335	May cause respiratory irritation.			
H351	Suspected of causing cancer.			
H373	May cause damage to organs through pro	olonged or repeated exposure if inhaled.		
Code	Hazard class and hazard category	Description		
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4		
3.2/2	Skin Irrit. 2	Skin irritation, Category 2		
3.3/1	Eye Dam. 1	Serious eye damage, Category 1		
3.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A		

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3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.6/2	Carc. 2	Carcinogenicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2

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:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION