

**Safety Data Sheet**  
**ULTRAPLAN MAXI**

Safety Data Sheet dated: 14/03/2023 - version 6  
Date of first edition: 03/05/2017



**Section 1: Identification**

**GHS Product identifier**

Mixture identification:

Trade name: ULTRAPLAN MAXI

Trade code: 901491

**Recommended use of the chemical and restrictions on use**

Recommended use: Cement based levelling mortar

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

Responsible: 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

Causes serious eye damage.

Skin Sensitisation, Category 1B

May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

**GHS label elements, including precautionary statements**

**Pictograms and Signal Words**



Danger

**Hazard statements**

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

**Precautionary statements**

P261 Avoid breathing dust.

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

P302+P352 IF ON SKIN: Wash with plenty of 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.

P321 Specific treatment (see supplementary instructions on this label)

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

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

**Other hazards which do not result in a classification**

Other Hazards: No other hazards

Prolonged exposition and/or intensive inhalation of respirable free crystalline silica (average diameter less than 10 micron in accordance with ACGIH) can cause pulmonary fibrosis commonly referred to as silicosis.

This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns.

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### Section 3: Composition and information on ingredients

#### Substances

no data available

#### Mixtures

Mixture identification: ULTRAPLAN MAXI

#### 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 %	free crystalline silica (Ø >10 µ)	CAS:14808-60-7 EC:238-878-4		
≥25 - <50 %	Calcium carbonate	CAS:471-34-1 EC:207-439-9		Exempted
≥2.5 - <5 %	portland cement, Cr(VI) < 2 ppm	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Dam. 1, H318; STOT SE 3, H335	
≥0.05 - <0.1 %	calcium carbonate	CAS:1317-65-3 EC:215-279-6		

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### Section 4: First-aid measures

#### Description of necessary 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.

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 ophthalmologist 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).

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### Section 5: Firefighting measures

#### Suitable extinguishing media

- None in particular.
- Water.
- Carbon dioxide (CO<sub>2</sub>).

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: ==
- 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.

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## 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.

### Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations  
Suitable material for taking up: absorbing material, organic, sand  
Scoop into containers and seal for disposal.  
Wash with plenty of water.  
Retain contaminated washing water and dispose it.

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## 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.

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## Section 8: Exposure controls and personal protection

### Control parameters – exposure standards, biological monitoring

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
free crystalline silica ( $\emptyset > 10 \mu$ ) CAS: 14808-60-7	ACGIH		Long Term: 0,025 mg/m <sup>3</sup> A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
		National AUSTRALIA	Long Term: 0,05 mg/m <sup>3</sup>
		National BELGIUM	Long Term: 0,1 mg/m <sup>3</sup>
		National BULGARIA	Long Term: 0,07 mg/m <sup>3</sup>
		National CROATIA	Long Term: 0,1 mg/m <sup>3</sup>
		National CZECH REPUBLIC	Long Term: 0,1 mg/m <sup>3</sup>
		National DENMARK	Long Term: 0,3 mg/m <sup>3</sup> DENMARK, inhalable aerosol inhalable aerosol
		National DENMARK	Long Term: 0,1 mg/m <sup>3</sup> DENMARK, respirable aerosol respirable aerosol
		National DENMARK	Long Term: 0,3 mg/m <sup>3</sup>
		National DENMARK	Long Term: 0,1 mg/m <sup>3</sup>
		National ESTONIA	Long Term: 0,1 mg/m <sup>3</sup>
		National FINLAND	Long Term: 0,05 mg/m <sup>3</sup>
		National FRANCE	Long Term: 0,1 mg/m <sup>3</sup>
		National HUNGARY	Long Term: 0,15 mg/m <sup>3</sup>
		National LITHUANIA	Long Term: 0,1 mg/m <sup>3</sup>
		National NORWAY	Long Term: 0,3 mg/m <sup>3</sup> Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende. (K: Chemicals to be treated as carcinogenic.)
	ACGIH		Long Term: 0,025 mg/m <sup>3</sup> (R), A2 - Pulm fibrosis, lung cancer

	National PORTUGAL	Long Term: 0,025 mg/m3
	National ROMANIA	Long Term: 0,1 mg/m3
	National SLOVAKIA	Long Term: 0,1 mg/m3; Short Term: 0,5 mg/m3
	National SLOVENIA	Long Term: 0,1 mg/m3
	National SPAIN	Long Term: 0,05 mg/m3
	National SWEDEN	Long Term: 0,1 mg/m3
	National SWITZERLAND	Long Term: 0,15 mg/m3
Calcium carbonate CAS: 471-34-1	AUS AUSTRALIA	Long Term: 10 mg/m3
	National FRANCE	Long Term: 10 mg/m3
	National PORTUGAL	Long Term: 10 mg/m3
	National LATVIA	Long Term: 6 mg/m3
portland cement, Cr(VI) < 2 ppm CAS: 65997-15-1	AUS	Long Term: 10 mg/m3 10 mg/m3 PEL
	OSHA	Long Term: 15 mg/m3
	OSHA	Long Term: 5 mg/m3
	ACGIH	Long Term: 1 mg/m3 A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	ACGIH AUSTRALIA	Long Term: 1 mg/m3 A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	AUS AUSTRALIA	Long Term: 10 mg/m3 10 mg/m3 PEL
	National BELGIUM	Long Term: 1 mg/m3
	National CROATIA	Long Term: 10 mg/m3; Short Term: 10 mg/m3
	National CROATIA	Long Term: 4 mg/m3; Short Term: 10 mg/m3
	National CROATIA	Long Term: 10 mg/m3
	National CROATIA	Long Term: 4 mg/m3
	National FINLAND	Long Term: 1 mg/m3 FINLAND, respirabel fraktion
	National FINLAND	Long Term: 5 mg/m3
	National FINLAND	Long Term: 1 mg/m3 inhalable dust
	National HUNGARY	Long Term: 10 mg/m3; Short Term: 30 mg/m3
	National LATVIA	Long Term: 6 mg/m3
	National PORTUGAL	Long Term: 10 mg/m3
	National PORTUGAL	Long Term: 1 mg/m3
	National ROMANIA	Long Term: 10 mg/m3
	National SPAIN	Long Term: 4 mg/m3 5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National SPAIN	Long Term: 4 mg/m3
	National UNITED KINGDOM	Long Term: 10 mg/m3 inhalable dust
	National UNITED KINGDOM	Long Term: 4 mg/m3; Short Term: 10 mg/m3 respirable dust
	National UNITED KINGDOM	Long Term: 10 mg/m3; Short Term: 30 mg/m3 5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National UNITED KINGDOM	Long Term: 4 mg/m3
	National UNITED	Long Term: 10 mg/m3; Short Term: 30 mg/m3

	KINGDOM	
	National UNITED KINGDOM	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 12 mg/m <sup>3</sup>
	National UNITED KINGDOM	Long Term: 4 mg/m <sup>3</sup> ; Short Term: 30 mg/m <sup>3</sup>
calcium carbonate CAS: 1317-65-3	OSHA	Long Term: 15 mg/m <sup>3</sup>
	OSHA	Long Term: 5 mg/m <sup>3</sup>
	National GREECE	Long Term: 10 mg/m <sup>3</sup>
	National GREECE	Long Term: 5 mg/m <sup>3</sup>
	National BELGIUM	Long Term: 10 mg/m <sup>3</sup>
	National CZECH REPUBLIC	Long Term: 10 mg/m <sup>3</sup>
	National HUNGARY	Long Term: 10 mg/m <sup>3</sup>
	National ESTONIA	Long Term: 10 mg/m <sup>3</sup>
	National ESTONIA	Long Term: 5 mg/m <sup>3</sup>
	National SLOVAKIA	Long Term: 10 mg/m <sup>3</sup>
	National UNITED KINGDOM	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 30 mg/m <sup>3</sup>
	National UNITED KINGDOM	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 12 mg/m <sup>3</sup>
	National UNITED KINGDOM	Long Term: 4 mg/m <sup>3</sup> ; Short Term: 30 mg/m <sup>3</sup>
	National BULGARIA	Long Term: 10 mg/m <sup>3</sup>
	National ROMANIA	Long Term: 10 mg/m <sup>3</sup>
	National CROATIA	Long Term: 4 mg/m <sup>3</sup>
	National CROATIA	Long Term: 10 mg/m <sup>3</sup>
	National FRANCE	Long Term: 10 mg/m <sup>3</sup>

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

Calcium carbonate Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l  
CAS: 471-34-1

#### Derived No Effect Level (DNEL) values

Calcium carbonate Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
CAS: 471-34-1 Worker Industry: 6,36 mg/m<sup>3</sup>; Consumer: 1,06 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 6,1 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 6,1 mg/kg

#### 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  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile gloves are suggested (1,3 mm; 480 min). Not recommended gloves: not waterproof gloves

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.

no data available

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## Section 9: Physical and chemical properties

Physical state: Solid

Appearance: powder

Color: Grey

Odour: cement like

pH: 12.00

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

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: 1.10 g/cm<sup>3</sup>

Solubility in water: partly soluble

Solubility in oil: insoluble

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) : 0 (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

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## 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.

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## Section 11: Toxicological information

### Information on toxicological effects

Contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids), therefore the contact with skin and eyes should be carefully avoided.

### 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: Skin Sensitisation, Category 1B(H317)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified

g) reproductive toxicity	Based on available data, the classification criteria are not met Not classified
h) STOT-single exposure	Based on available data, the classification criteria are not met Not classified
i) STOT-repeated exposure	Based on available data, the classification criteria are not met Not classified
j) aspiration hazard	Based on available data, the classification criteria are not met Not classified

**Toxicological information on main components of the mixture:**

free crystalline silica (Ø >10 µ)	a) acute toxicity	LD50 Oral > 2000 mg/kg LD50 Skin > 2000 mg/kg
Calcium carbonate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Rat > 3 mg/l LD50 Skin Rat > 2000 mg/kg 4h LD50 Oral Rat = 6450 mg/kg
	g) reproductive toxicity	NOAEL Rat = 1000 mg/kg
calcium carbonate	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg

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**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 carbonate	CAS: 1317-65-3 - - EINECS: 215-279-6	a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96  a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 200 mg/L 72

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

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**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.

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## 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

Air (IATA):

no data available

Sea (IMDG):

no data available

### Additional Information

no data available

### HazChem Code/Emergency Action code

no data available

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## 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

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## Section 16: Any other relevant information

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

  

Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2



3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

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