

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

1.1. Product identifier

Mixture identification: Trade name: ULTRAPLAN RENOVATION SCREED 3240 Trade code: 9001247 UFI: AE00-F0YH-6007-YSXJ

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

Recommended use: Cement based levelling mortar

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) Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



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.

- P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy 8 to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- 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.

Contains

portland cement, Cr(VI) < 2 ppm

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

None.

2.3. Other hazards

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

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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: ULTRAPLAN RENOVATION SCREED 3240

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50 %	silica sand		Substance with a Union workplace exposure limit.	
≥2.5 - <5 %	portland cement, Cr(VI) < 2 ppm		Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Dam. 1, H318; STOT SE 3, H335	
<0.0015 %	free crystalline silica (Ø <10 $\mu)$	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.

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.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

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.

Burning produces heavy smoke.

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations

Scoop into containers and seal for disposal.

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

Wash with plenty of water.

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.

Advice on general occupational hygiene:

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

Community Occupational Exposure Limits (OEL)

	OEL Country Type	Occupational Exposure Limit
silica sand CAS: 14808-60-7	ACGIH	Long Term: 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	National AUSTRALIA	Long Term: 0.05 mg/m3
	National BELGIUM	Long Term: 0.1 mg/m3
	National BULGARIA	Long Term: 0.07 mg/m3
	National CROATIA	Long Term: 0.1 mg/m3
	National CZECH REPUBLIC	Long Term: 0.1 mg/m3
	National DENMARK	Long Term: 0.3 mg/m3 DENMARK, inhalable aerosol inhalable aerosol

	National	DENMARK	Long Term: 0.1 mg/m3 DENMARK, respirable aerosol respirable aerosol
	National	DENMARK	Long Term: 0.3 mg/m3
	National	DENMARK	Long Term: 0.1 mg/m3
	National	ESTONIA	Long Term: 0.1 mg/m3
		FINLAND	Long Term: 0.05 mg/m3
		FRANCE	Long Term: 0.1 mg/m3
		GERMANY	Long Term: 0.15 mg/m3
			50 μ g/m ³ (Partikel Durchmesser < 12 μ m) - TRGS 906
	National	HUNGARY	Long Term: 0.15 mg/m3
		LITHUANIA	Long Term: 0.1 mg/m3
	Malaysi a OEL	MALAYSIA	Long Term: 0.1 mg/m3 0.1 mg/m3 TWA (respirable dust)
	NDS	NETHERLAND S	Long Term: 0.075 mg/m3
	National	NORWAY	Long Term: 0.3 mg/m3 Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende. (K: Chemicals to be treated as carcinogenic.)
	ACGIH		Long Term: 0.025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
	NDS	POLAND	Long Term: 0.1 mg/m3
	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	SWITZERLAN D	Long Term: 0.15 mg/m3 A
	EU		Long Term: 0.1 mg/m3 Behaviour Binding
portland cement, Cr(VI) < 2 ppm CAS: 65997-15-1	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
	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
	DFG	GERMANY	Long Term: 15 mg/m3
	DFG	GERMANY	Long Term: 15 mg/m3
	National	HUNGARY	Long Term: 10 mg/m3; Short Term: 30 mg/m3
	National	LATVIA	Long Term: 6 mg/m3
		MALAYSIA	Long Term: 10 mg/m3; Short Term: 10 mg/m3 A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma

	Malaysi a OEL	MALAYSIA	Long Term: 10 mg/m3 5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	NDS	POLAND	Long Term: 6 mg/m3 frakcja wdychalna
	NDS	POLAND	Long Term: 2 mg/m3 frakcja respirabilna
	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
		SWITZERLAN D	Long Term: 5 mg/m3 A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	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 KINGDOM	Long Term: 10 mg/m3; Short Term: 30 mg/m3
	National	UNITED KINGDOM	Long Term: 10 mg/m3; Short Term: 12 mg/m3
	National	UNITED KINGDOM	Long Term: 4 mg/m3; Short Term: 30 mg/m3
free crystalline silica (Ø <10 μ) CAS: 14808-60-7	ACGIH		Long Term: 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	National	ARGENTINA	Long Term: 0.05 mg/m3
	National	AUSTRALIA	Long Term: 0.1 mg/m3
	National	AUSTRIA	Long Term: 0.15 mg/m3 A*
	National	BELGIUM	Long Term: 0.1 mg/m3
	National	BULGARIA	Long Term: 0.07 mg/m3
	National	CROATIA	Long Term: 0.1 mg/m3
	National	CZECH REPUBLIC	Long Term: 0.1 mg/m3
	National	DENMARK	Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 Respirabel fraktion, respirable fraction E: Stoffet har en EU-grænseværdi. K: Stoffet anses for at kunne være kræftfremkaldende.
	National	DENMARK	Long Term: 0.3 mg/m3; Short Term: 0.6 mg/m3 Total dust
	National	ESTONIA	Long Term: 0.1 mg/m3
	National	FINLAND	Long Term: 0.05 mg/m3 Respirabel fraktion. Respirable fraction
	National	FRANCE	Long Term: 0.1 mg/m3
	National	HUNGARY	Long Term: 0.15 mg/m3
	National	ITALY	Long Term: 0.1 mg/m3

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National LITHUANIA	Long Term: 0.1 mg/m3
Malaysi MALAYSIA a OEL	Long Term: 0.1 mg/m3 0.1 mg/m3 TWA (respirable dust)
NDS NETHERLAND S	D Long Term: 0.075 mg/m3
National NORWAY	Long Term: 0.3 mg/m3 Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende.
National NORWAY	Long Term: 0.05 mg/m3 Respirabelt støv (respirable dust); K: Kjemikalier som skal betraktes som kreftfremkallende. G: EU har fastsatt en bindende grenseverdi og/eller anmerkning av stoffet.
ACGIH	Long Term: 0.025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
EU	Long Term: 0.025 mg/m3 A2 (R) - Pulm fibrosis, lung cancer
NDS POLAND	Long Term: 0.1 mg/m3
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 Respirabel fraktion. Respirable fraction C: Ämnet är cancerframkallande. M: Medicinska kontroller.

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.

Nitrile gloves are suggested (1,3 mm; 480 min). 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. A dust mask (P2) should be worn if above exposure limits (EN 149)

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: Solid Appearance: powder Colour: Grey Odour: cement like Odour threshold: Not available Melting point/freezing point: Not available Boiling point or initial boiling point and boiling range: Not available Flammability: N.A.

Lower and upper explosion limit: Lower and upper explosion limit: Not available Flash point: Not available Auto-ignition temperature: Not available Decomposition temperature: Not available pH: Not available pH (water dispersion, 10%): 12.00 Viscosity: Not available Kinematic viscosity: Not available Solubility in water: partly soluble Solubility in oil: insoluble Partition coefficient n-octanol/water (log value): Not available Vapour pressure: Not available Density and/or relative density: Not available Relative vapour density: Not available **Particle characteristics:** Particle size: Not available 9.2. Other information Miscibility: Not available

Conductivity: Not available Explosive properties: == No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None 10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

- None in particular.
- 10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1B(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	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

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Toxicological information on main components of the mixture:				
silica sand	a) acute toxicity	LD50 Oral > 2000 mg/kg		
		LD50 Skin > 2000 mg/kg		
free crystalline silica (Ø $< 10 \text{ m}$)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg		

<10 µ)

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:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

ΝΑ

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): 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

The product contains Cr (VI) under the limits established by annex. XVII pt.47. Respect the duration according to the information described on the packaging.

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: None.

Restrictions related to the substances contained: 40, 75

SVHC Substances:

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

National regulations

Lagerklasse (TRGS-510): 13 - Non-combustible solids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 1: slightly hazardous for water.

Regulation (UE) 2019/1148 (Explosive precursors): No substances contained

Print date

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.		
H318	Causes serious eye damage.		
H335	May cause respiratory irritation.		
H372	Causes damage to organs through prolonged or repeated exposure.		
Code	Hazard class and hazard category	Description	
Code 3.2/2	Hazard class and hazard category Skin Irrit. 2	Description Skin irritation, Category 2	
	5,	•	
3.2/2	Skin Irrit. 2	Skin irritation, Category 2	
3.2/2 3.3/1	Skin Irrit. 2 Eye Dam. 1	Skin irritation, Category 2 Serious eye damage, Category 1	

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
Eye Dam. 1, H318	Calculation method
Skin Sens. 1B, H317	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 2: Hazards identification

- SECTION 3: Composition/information on ingredients
- SECTION 5: Firefighting measures
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- SECTION 7: Handling and storage
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- SECTION 9: Physical and chemical properties
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