

**Safety Data Sheet**  
**UNIPLAN 400 ZERO**

Safety Data Sheet dated: 09/09/2024 - version 2



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

**1.1. Product identifier**

Mixture identification:

Trade name: UNIPLAN 400 ZERO

Trade code: 9003562

UFI: 5QM6-N09P-H00H-K17T

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

Recommended use: Ready prepared cement mortar

Uses advised against: Data not available.

**1.3. Details of the supplier of the safety data sheet**

Company: MAPEI AS - Vallsetvegen, 6 - 2120 Sagstua - Norway

phone: +47-62972000 - fax: +47-62972099 - www.mapei.no (office hours)

Responsible: sicurezza@mapei.it

**1.4. Emergency telephone number**

Giftinformasjonen – phone number: +47 22591300

**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**



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.

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.

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**

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards: No other hazards

---

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not Relevant

### 3.2. Mixtures

Mixture identification: UNIPLAN 400 ZERO

#### Hazardous components within the meaning of the CLP 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	Substance with a Union workplace exposure limit.	
≥5 - <10 %	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	
≥0.1 - <0.25 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	

---

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

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 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.

### 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 (CO<sub>2</sub>).

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.
- Limit leakages with earth or sand.
- 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 Type	Country	Occupational Exposure Limit
free crystalline silica ( $\varnothing > 10 \mu$ ) 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>
SUVA GERMANY	Long Term: 0.15 mg/m <sup>3</sup> 50 µg/m <sup>3</sup> (Partikel Durchmesser < 12 µm ) - TRGS 906
National HUNGARY	Long Term: 0.15 mg/m <sup>3</sup>
National LITHUANIA	Long Term: 0.1 mg/m <sup>3</sup>
Malaysi a OEL MALAYSIA	Long Term: 0.1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> TWA (respirable dust)
NDS S NETHERLAND	Long Term: 0.075 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
NDS POLAND	Long Term: 0.1 mg/m <sup>3</sup>
National PORTUGAL	Long Term: 0.025 mg/m <sup>3</sup>
National ROMANIA	Long Term: 0.1 mg/m <sup>3</sup>
National SLOVAKIA	Long Term: 0.1 mg/m <sup>3</sup> ; Short Term: 0.5 mg/m <sup>3</sup>
National SLOVENIA	Long Term: 0.1 mg/m <sup>3</sup>
National SPAIN	Long Term: 0.05 mg/m <sup>3</sup>
National SWEDEN	Long Term: 0.1 mg/m <sup>3</sup>
National SWITZERLAND	Long Term: 0.15 mg/m <sup>3</sup>
EU	Long Term: 0.1 mg/m <sup>3</sup> Behaviour Binding
portland cement, Cr(VI) < 2 ppm CAS: 65997-15-1	ACGIH Long Term: 1 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
ACGIH AUSTRALIA	Long Term: 1 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
National BELGIUM	Long Term: 1 mg/m <sup>3</sup>
National CROATIA	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup>
National CROATIA	Long Term: 4 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup>
National CROATIA	Long Term: 10 mg/m <sup>3</sup>
National CROATIA	Long Term: 4 mg/m <sup>3</sup>
National FINLAND	Long Term: 1 mg/m <sup>3</sup> FINLAND, respirabel fraktion
National FINLAND	Long Term: 5 mg/m <sup>3</sup>
National FINLAND	Long Term: 1 mg/m <sup>3</sup> inhalable dust
DFG GERMANY	Long Term: 15 mg/m <sup>3</sup>
DFG GERMANY	Long Term: 15 mg/m <sup>3</sup>
National HUNGARY	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 30 mg/m <sup>3</sup>
National LATVIA	Long Term: 6 mg/m <sup>3</sup>
Malaysi a OEL MALAYSIA	Long Term: 10 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup> A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
Malaysi a OEL MALAYSIA	Long Term: 10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> TWA (containing <1% of free Silica, respirable dust);10 mg/m <sup>3</sup> 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
SUVA	SWITZERLAND	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
National	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	Long Term: 0.075 mg/m3 S
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  $\geq 0,5\text{mm}$ ; 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  $\geq 480\text{min}$ .

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.

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: Odourless

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%): 12.50  
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: 1.50 g/cm<sup>3</sup>  
Relative 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**

None.

---

**SECTION 11: Toxicological information**

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

**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 Based on available data, the classification criteria are not met

**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

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

---

## 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

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  $\geq 0.1\%$

### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### 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**

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, 70, 75

**SVHC Substances:**

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

**National regulations**

Produktregisteret Norge: 662180

MAL-kode: 00-4 (1993)

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.

**15.2. Chemical safety assessment**

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

---

**SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
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.

<b>Code</b>	<b>Hazard class and hazard category</b>	<b>Description</b>
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
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, 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**

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
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 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information