



# Safety Data Sheet



**Signal word: DANGER**

**Hazard statements**

H372 Causes damage to organs through prolonged or repeated exposure via inhalation

**Precautionary statement**

P260 Do not breathe dust.

P285: In case of inadequate ventilation wear respiratory protection

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Labelling information:**

This product contains quartz.

**2.3 Other hazards**

This product should be handled with care to avoid dust generation. Depending on the type of use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause silicosis. PBT and vPvB evaluations are in section 12.5.

**SECTION 3: Composition / information on ingredients**

**3.1 Mixture**

**Ingredients:** Mixture of quartz, cristobalite, magnesium oxide, aluminum oxide, Ammonium hydrogen phosphate and inorganic colours,  $\alpha$  - hemihydrate

Chemical name	CAS Nr. EC-Number INDEX number	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Quartz (SiO <sub>2</sub> )	14808-60-7	5 - 10	STOT RE 1	H372

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(fine fraction)	238-878-4			
Cristobalite	14464-46-1	< 5	STOT RE 2	H373
(fine fraction)	238-455-4			

### **SECTION 4: First Aid Measures**

#### **4.1 Description of first aid measures**

*After inhalation:*

Move victim to fresh air. Ask for medical help if problems appear.

*After skin contact:*

Remove contaminated clothes and wash it.

*After eye contact:*

Wash off open lid with plenty of water for at least 15 minutes. Ask for medical help.

*After swallowing:*

Wash mouth with plenty of water and drink at least 100 ml, ask for medical help.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Symptoms: cough, nausea, shortness of breath.

Effects: risk of severe lung damage (if inhaled).

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Not applicable

### **SECTION 5: Fire Prevention Regulations**

#### **5.1 Extinguishing media**

*Suitable extinguishing agents:*

No limitations

*Unsuitable extinguishing agents:*

n.a.

#### **5.2 Special hazards arising from the substance or mixture**

Not known

#### **5.3 Advice for firefighters**

Self-contained breathing apparatus (SBA) and full protective equipment is recommended.

### **SECTION 6: Accidental Substance Release Regulations**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

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Wear protective clothing. Remove powder from clothing. Use mask with filter, provide good ventilation.

### 6.2 Environmental precautions

Prevent

### 6.3 Methods and material for containment and cleaning up

Mechanically collect. Avoid dust formation. Moisten dust before mechanical collection. Observe regulations during disposal.

### 6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Try to avoid breathing powder and dusting when cleaning. Ensure adequate exhaust ventilation at the point of dust generation.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage in dry place on room temperature and tightly closed.

### 7.3. Specific end use(s)

Product has to be used in accordance with instructions for use on the label. For professional use in dental laboratory.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

*Occupational exposure limit:*

EU – Commission Directive 98/24/EC including all amendments and modifications, Regulation on the protection of workers from risks related to exposure to chemical substances at work (Official Gazette of the Republic of Slovenia, No. 72/2021, 29/2024, 26/2025), Regulation on the protection of workers from risks related to exposure to carcinogenic, mutagenic, or reprotoxic substances at work (Official Gazette of the Republic of Slovenia, No. 29/2024, 26/2025).

<b>Chemical name: Quartz</b>	
<b>OEL</b>	8 h: 0,1 mg/m <sup>3</sup> (A)*
<b>Chemical name: Dust</b>	
<b>OEL</b>	8 h: 10 mg/m <sup>3</sup> (I)*
	8 h: 1,25 mg/m <sup>3</sup> (A)*

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\* A- alveolar fraction, I- inhalable fraction

### 8.2 Exposure controls

#### *Personal protective equipment*

Personal protection equipment in accordance with Directive (EU) 2016/425 and List for harmonized standards for OVO-2018/C 209/03.

#### *General protection and hygienic measures:*

Provide good ventilation. Do not breath dust. Wear personal protective equipment. Do not eat, drink or smoke when working. Wash hands when stop working and during breaks.

#### *Breathing equipment:*

Use mask with filter: respirator EN149 (FFP3).

#### *Protection of hands:*

Use protective gloves in accordance with EN 388

#### *Eye protection:*

Safety goggles (EN 166:2001).

#### *Protection of skin and body:*

Working clothes.

### 8.3 Control of environment protection

Common instructions: Do not wash rinse with fresh water or to drainage system.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	powder
<b>Colour</b>	White
<b>Odour</b>	odourless
<b>Melting point / freezing point</b>	NA
<b>Boiling point or initial boiling point and boiling range</b>	NA
<b>Flammability</b>	NA
<b>Lower and upper explosion limit</b>	NA
<b>Flash point</b>	NA
<b>Auto-ignition temperature</b>	NA
<b>Decomposition temperature</b>	NA
<b>pH</b>	5 – 8 (in 80% water mixture)

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<b>Kinematic viscosity</b>	NA
<b>Solubility</b>	NA
<b>Partition coefficient n-octanol/water (log value)</b>	NA
<b>Vapour pressure</b>	NA
<b>Density and/or relative density</b>	NA
<b>Relative vapour density</b>	NA
<b>Particle characteristics</b>	NA
<b>9.2 Other information</b>	
Powder is hygroscopic and it absorbs water.	

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

In the product form is stable under normal storage and handling conditions.

#### **10.2 Chemical stability**

In the product form is stable under normal storage and handling conditions.

#### **10.3 Possibility of hazardous reaction**

No hazardous reaction when handled and stored according to provisions.

#### **10.4 Conditions to avoid**

None.

#### **10.5 Incompatible materials**

Void

#### **10.6 Hazardous decomposition products**

When heating investment, ammonia is released (OEL 14mg/m<sup>3</sup>) in oven.

### **SECTION 11: Toxicological information**

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

**Acute toxicity:** not known.

**Skin corrosion/irritation:** Not classified

**Serious eye damage/irritation:** Not classified

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified.

**STOT-single exposure:** Not classified

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**STOT-repeated exposure:** Not classified  
**Aspiration hazard:** Possible getting silicosis when inhale to much powder.

**11.2 Information on other hazards**  
 No other information available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Not available for the product.

**12.2 Persistence and degradability**

Inorganic salts are basically not biodegradable. Easy elimination possible by flocculation or adsorption by sludge.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

Not available for the product.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to EC 1907/2006 REACH, annex XIII.

**12.6 Other adverse effect**

Do not allow to enter drains or water courses. Avoid release to the soil

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

*Waste disposal methods:* Dispose of contents/container to a facility in accordance with local and national regulations.

*Product disposal methods:* Special disposal required in accordance with local regulations. Prevent release into watercourses and drains.

*Waste classification:* 17 08 02 Gypsum-based construction material other than that mentioned in 17 08 01.

*Packaging classification:* 15 01 02 Plastic packaging.

**SECTION 14: Transport Information**

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):	Air (IATA):
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<b>14.1 UN number</b>	No data available
<b>14.2 UN proper shipping name</b>	No data available
<b>14.3 Transport hazard class(es)</b>	No data available
<b>14.4 Packing group</b>	No data available
<b>14.5 Environmental hazards</b>	No data available
<b>14.6 Special precautions for user</b>	No special precautions
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available
Not a dangerous product within the meaning of the transport regulations.	

### **SECTION 15: Regulatory information**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product is classified in accordance with the requirements of Regulation (EC) No. 1272/2008 and 1907/2006, including their amendments, and corresponding national laws: Regulation on the implementation of the Regulation (EC) on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Official Gazette of the Republic of Slovenia No. 23/08 and 191/20, and Regulation on the implementation of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, Official Gazette of the Republic of Slovenia No. 56/10.

#### **15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### *Revision:*

Safety data sheet version 10 issued on July 2025 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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### *Legend of abbreviations:*

ADR – European agreement concerning the international carriage of dangerous goods by road  
CAS – Chemical Abstracts Service  
CLP – Classification, Labeling and Packaging  
CMR – Carcinogenic, Mutagenic or toxic for Reproduction  
DNEL - Derived no-effect level  
EC50: Half maximal effective concentration  
EmS – Emergency Schedule  
GHS – Globally Harmonised System of Classification and Labeling of Chemicals  
IATA – International Air Transport Association  
IUCLID – International Uniform Chemical Information Database  
IMDG – International Maritime Dangerous Goods Code  
LC50: Lethal concentration, 50%  
LD50: Median lethal dose; the dose causing 50% lethality  
MARPOL – International convention for the prevention of pollution from ships  
NOEC - No-observed-effect concentration  
NOAEL – No-observed-adverse-effect level  
NTP- National Toxicology Program  
OEL - Occupational exposure limit  
OECD - Organisation for Economic Co-operation and Development  
PBT – Persistent Bioaccumulative Toxic  
PNEC: Predicted no-effect concentration  
Ppm – parts per million  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals  
RTECS – The Registry of Toxic Effects of Chemical Substances  
RID – Regulation concerning the international carriage of dangerous goods by rail  
vPvB – very Persistent and very Bioaccumulative

### *References:*

- Regulation (EC) No. 1907/2006 (REACH), as amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Commission Directive 2009/161/EU
- Safety Data Sheet of the raw material manufacturer
- Martindale: The Extra Pharmacopoeia, 13th edition
- Website: <https://chem.echa.europa.eu/>
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Regulation on the Implementation of Regulation (EU) on Personal Protective Equipment (Official Gazette of RS, No. 33/18)
- List of Harmonized Standards for Personal Protective Equipment (C 412 / 11.12.2015, with all amendments and supplements)
- Health and Safety at Work Act (Official Gazette of RS, No. 43/2011)
- Waste Regulation (Official Gazette of RS, No. 77/22 and 113/23)
- Regulation on Packaging and Packaging Waste (Official Gazette of RS, No. 54/21, 208/21, 44/22 – ZVO-2 and 120/22)

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- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Decision on the Publication of Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Dangerous Goods Regulations (DGR) for the Air Transport (IATA)
- Regulations for the International Maritime Transport of Dangerous Goods (IMDG)
- EU – Commission Directive 98/24/EC with all amendments and supplements
- Regulation on the Protection of Workers from the Risks Related to Exposure to Chemical Substances at Work (Official Gazette of RS, No. 72/2021, 29/2024, 26/2025)
- Regulation on the Protection of Workers from the Risks Related to Exposure to Carcinogenic, Mutagenic or Reprotoxic Substances at Work (Official Gazette of RS, No. 29/2024, 26/2025)

*Disclaimer of expressed and implied warranties:*

The information contained in the safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.