

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, α - hemihydrate

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

Safety Data Sheet

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

SECTION 4: First Aid Measures

4.1 Description of first aid measures

4.1.1 General information:

No special measures required.

After inhalation:

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

After skin contact:

Wash with water.

After eye contact:

Wash off open lid with plenty of water, ask for medical help.

After swallowing:

Induce vomiting, ask for medical help.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 – Toxicological information

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.

Safety Data Sheet

SECTION 6: Accidental Substance Release Regulations

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

To avoid dusting sprinkle with water and collect mechanically.

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.

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit:

Directive 98/24/EC with all amendments and implementations

Official Gazette RS, nr. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19; 72/21

Chemical name: Quartz

OEL	8 h: 0,1 mg/m ³ (A)*
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Safety Data Sheet

Chemical name: Dust	
OEL	8 h: 10 mg/m ³ (I)*
	8 h: 1,25 mg/m ³ (A)*
<p>* A- alveolar fraction, I- inhalable fraction</p> <p>8.2 Exposure controls</p> <p><i>Personal protective equipment</i> Personal protection equipment in accordance with Directive (EU) 2016/425 and List for harmonized standards for OVO-2018/C 209/03.</p> <p><i>General protection and hygienic measures:</i> 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.</p> <p><i>Breathing equipment:</i> Use mask with filter: respirator EN149:2001+A1:2009 (FFP3).</p> <p><i>Protection of hands:</i> Use protection in accordance with EN 374-1:2016</p> <p><i>Eye protection:</i> Safety goggles (EN 166:2001).</p> <p><i>Protection of skin and body:</i> Working clothes.</p> <p>8.3 Control of environment protection Common instructions: Do not wash rinse with fresh water or to drainage system.</p>	

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
Physical state	powder
Colour	White
Odour	odourless
Melting point / freezing point	NA
Boiling point or initial boiling point and boiling range	NA
Flammability	NA

Safety Data Sheet

Lower and upper explosion limit	NA
Flash point	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
pH	5 – 8 (in 80% water mixture)
Kinematic viscosity	NA
Solubility	NA
Partition coefficient n-octanol/water (log value)	NA
Vapour pressure	NA
Density and/or relative density	NA
Relative vapour density	NA
Particle characteristics	NA
9.2 Other information	
Powder is hygroscopic and it absorbs water.	

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product.

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, ammoniac is released (OEL 14mg/m³) 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

Safety Data Sheet

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
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

Not known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sprinkle powder with water, collect mechanically and dispose with household garbage.

SECTION 14: Transport Information

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):	Air (IATA):

Safety Data Sheet

14.1 UN number	No data available
14.2 UN proper shipping name	No data available
14.3 Transport hazard class(es)	No data available
14.4 Packing group	No data available
14.5 Environmental hazards	No data available
14.6 Special precautions for user	No special precautions
14.7 Maritime transport in bulk according to IMO instruments	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

EU Label Information:

Classification and labeling have been performed according to Regulative 1272/2008.

EU Hazard Symbol and Indication of Danger:

According to Regulation EC 1272/2008 this product is not classified.

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 issued on December 2022 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).

Legend of abbreviations:

ADR – European agreement concerning the international carriage of dangerous goods by road
 CAS – Chemical Abstracts Service

Safety Data Sheet

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:

Directive 1907/2006 (REACH) with all implementations and amendments
Directive 1272/2008 (CLP, EU GHS) with all implementations and amendments
Safety data sheets of the substances for the product
Directive EC 1907/2006 and 1272/2008 with all amendments and implementations
Council Directive 98/24/EC with all implementations and amendments
Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19; 72/21;
Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.
Martindale: The Extra Pharmacopoeia, 13. edition
European convention about international transport of hazardous material ADR
Dangerous Goods Regulations (DGR) for the air transport (IATA)
International Maritime Dangerous Goods Code IMDG

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.