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

1.1 Product identifier

Title: Milled silica – micro-milled sand

Other product names: Silica xxx, xxx crystalline quartz, xxx silica oxide, silica sand, quartzite, silica xxx

Business name: ST 2, ST 2 H, ST 6, ST 7, ST 8, ST 9

CAS identification number: 14808-60-7

Registration number: exempted in accordance with Annex V. of REACH Regulation point 7

The product itself is not and does not contain any nanoforms.

UFI Code: not relevant

1.2 Relevant intended uses of the substance or mixture and non-recommended uses

1.2.1 Intended use:

Name of use: SU13 - Manufacture of other non-metallic mineral products, e.g. cement mixtures, cement
SU19 - Construction and civil engineering

Further description of use: paint, ceramics, fibreglass, adhesives, plastics, rubber seals, special concrete, silicone production, ferrosilicon and iron oxide granules. An additive in the manufacture of cement and concrete. Flux.

1.2.2 Non-recommended uses:

Uses that generate fly ash and cannot provide adequate protection of persons from such dust.

The mixture may only be used for its intended purpose.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Sklopísek Střeleč, a. s.

Full address of the supplier/headquarters: Hrdoňovice 80, 50745 Újezd pod Troskami, Czech Republic

ID: 44795688

Competent person: jakub.pokorny@sklopisek.cz

Phone number: +420493505379

E-mail: sklopisek@sklopisek.cz

www. <https://glassand.eu/>

1.4 Emergency telephone number

Sklopísek Střeleč, a.s. Tel.: TBOZP - 493 505 310; Shop - 493 505 379 on weekdays 6.00 am to 2.00 pm.
Toxicology Information Centre, Na Bojišti 1, Prague
(non-stop): + 420 224 919 293, + 420 224 915 402
Information for health risks only - acute poisoning of humans and animals.

SECTION 2: Hazard identification

Overall classification: the mixture meets the criteria to be classified as hazardous

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2.1 Classification of the substance or mixture

	Classification	H-phrases
Classification (1272/2008):	STOT Re1	372 - Causes lung damage by prolonged or repeated exposure by inhalation.

The full text of the H phrases is given in Section 16 of this Safety Data Sheet.

Most serious adverse physical, human health and environmental effects (in accordance with sections 9 to 12 of this safety data sheet)

Depending on the type of processing and use (e.g. grinding, drying), flying, respirable crystalline quartz (quartz cristobalite) may form. Prolonged or extensive inhalation of respirable crystalline silica dust can cause pulmonary fibrosis, commonly referred to as silicosis. The main symptoms of silicosis are coughing and difficulty breathing. Exposure of employees to respirable crystalline silica dust must be monitored and controlled. This product must be handled with care to avoid dust creation.

2.2 Label elements

Hazard symbol according to EC Regulation 1272/2008:



Signal word:	Danger
Standard hazard statements:	H372: Causes lung damage with prolonged or repeated exposure by inhalation. P260: Do not breathe dust.
Instructions for safe handling:	P284: Wear respiratory protection if ventilation is inadequate. P501: Dispose of contents/container according to local regulations.

Additional information on the label none

2.3 Other hazards

As of the issue date of the safety data sheet, the substance is not classified as PBT or vPvB and is not listed in Annex XIV of REACH or on the candidate list for Annex XIV of REACH. The mixture itself is not nor does it contain endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Component identifier	Concentration/ concentration range in %	Index number CAS number ES number Registration number	Classification according to EC Regulation 1272/2008	
			Hazard class and category code	Standard hazard statement code
Quartz (SiO ₂) (Dust <10 µm (PM <10) respirable)	> 98 %	EINECS: 238-878-4	STOT RE 1; H372	
		CAS: 14808-60-7		

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A substance for which Union workplace exposure limits have been assigned.

SECTION 4: First aid instructions

4.1 Description of first aid

If you experience any health problems or if you are in doubt, notify your doctor and provide him/her with the information in this safety data sheet. When unconscious, place the affected person in a stable position on his/her side, with the head slightly inclined and ensure breathing can take place

When inhaled: Stop the exposure, move the affected person to fresh air, secure the affected person against cold, provide medical treatment, especially if cough, shortness of breath or other symptoms persist.

In case of contact with skin: No special first aid measures are necessary.

In case of contact with eye: Carefully flush the affected eye with plenty of water from the inner corner to the outer corner, including under the eyelids. If the affected person has contact lenses, remove them immediately. Call for medical help if the discomfort persists.

When ingested: No special first aid measures are necessary.

Protection of first aid providers: Always keep your own safety in mind when administering first aid.

4.2 The most important acute and delayed symptoms and effects

If inhaled - Prolonged exposure to respirable silica can cause pulmonary fibrosis, commonly referred to as silicosis.

In case of eye contact - Mechanical irritation.

4.3 Instructions for immediate medical assistance and special treatment

If the symptoms of any exposure (e.g., irritation) caused by contact with this product do not subside after first aid, seek medical attention and submit this safety data sheet.

It is not necessary to have special resources on site to provide specific and immediate treatment. Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: No special extinguishing media are required.

Unsuitable extinguishing media: Full water current. (Fire may spread.)

5.2 Special hazards arising from the substance or mixture

The product is non-flammable. Without dangerous thermal decomposition.

5.3 Instructions for firefighters

No special fire protection is required.

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SECTION 6: Precautions in case of accidental leakage

6.1 Precautions to protect persons, protective equipment and emergency procedures

6.1.1 For workers other than emergency responders - instructions on accidental spillage and leakage of the substance or mixture

- (a) the use of appropriate protective equipment (including personal protective equipment listed in section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
- b) ensure sufficient ventilation, dust control - prevent dust from stirring up
- c) emergency procedures, e.g. necessary evacuation of the hazardous area or consultation with an expert- not relevant

6.1.2 For emergency responders - guidance on appropriate materials for personal protective clothing (see section 8 of the safety data sheet)

see Section 8 of the safety data sheet

6.2 Environmental protection measures

Prevent further leakage into the environment. Avoid entry into drains, surface water, groundwater, soil. Prevent dust formation.

6.3 Methods and materials for leakage containment and cleaning

6.3.1 Instructions for containing leakages of spilled substances or mixtures

- a) Equip yourself with suitable personal protective equipment. Ensure sewer drains are covered with sewer plugs. Prevent further spread to the surrounding environment
- b) Seal damaged packaging

6.3.2 Instructions for the removal of spilled substance or mixture

Remove mechanically without creating dust (preferably by a water spraying cleaning system with a suction device) and rinse the area with water.

6.3.3 Additional information regarding spills and leaks, including guidance on inappropriate spill containment or clean-up methods

None.

6.4 Link to other sections

For personal protective equipment, see section 8. Disposal instructions: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Specific recommendations

Ensure adequate exhaust ventilation in areas where respirable dust is generated. In case of insufficient ventilation, use suitable respiratory protection. Handle wrapped products carefully to avoid unintentional tearing. If you require advice on safe handling techniques, please contact your supplier.

7.1.2 Guidelines on general occupational hygiene

- a) No eating, drinking or smoking at the workplace.
- b) After using the product, wash your hands with soap and water or use a regenerating cream.
- c) Remove soiled clothing and protective equipment before entering the catering area.

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7.2 Conditions for the safe storage of substances and mixtures, including incompatible substances and mixtures

Store in a clean, dry, well-ventilated place in the original packaging. Minimize the generation of airborne dust and prevent wind blowing during loading and unloading. Keep containers closed and store packaged products in such a way as to prevent accidental rupture.

7.3 Specific end use(s)

Do not use the product for purposes other than those specified in section 1.2 of this safety data sheet. If you require advice on a specific application, please contact your supplier.

SECTION 8: Exposure limitation/personal protective equipment

8.1 Control parameters

Exposure limits according to Government Regulation No. 361/2007 Coll. as amended:

Name of the substance (component):	CAS	PELr (Fr ≤ 5%)	PELr (Fr > 5%)	PELr (Fr = 100%)	PELc
other silicates except asbestos	14808-60-7	2 mg/m ³	10: Fr mg/m ³	0.1 mg/m ³	10 mg/m ³

Fr - content of fibrogenic component in the respirable fraction in %

Substances for which Union exposure limits have been assigned: For equivalent limit values in other countries, contact the competent person responsible for occupational health or the local regulatory authority.

Name of the substance (component):	CAS	OEL (mg/m ³)	STEL (mg/m ³)	Note
None				

Limit values for biological test indicators (Decree No 432/2003 Coll.):

Name of substance (component)	DNEL/PNEC	Value	Note
None			

8.2 Limiting exposure

8.2.1 Appropriate technical checks

Follow work procedures including precautions for safe handling, storage and transport. Minimizes the generation of airborne dust. Use operational barriers, local exhaust equipment, or other technical checks to keep dust levels below the specified exposure limits. If dust, fumes, or smoke are generated during user activities, use ventilation to keep exposure limits for particulate matter below these values. Use organisational measures such as isolating people from dusty areas. Take off and wash soiled clothing.

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8.2.2 Individual protective measures including personal protective equipment

- a) Eye and face protection: If there is a risk of mechanical eye injury, wear safety glasses with side covers.
- b) Skin protection: No special requirements. For hands see below. Adequate protection (e.g. protective clothing, protective cream) is recommended for workers who suffer from eczema or have sensitive skin.
- b-1) Hand protection: Appropriate protection (e.g. gloves, protective cream) is recommended for workers who suffer from eczema or have sensitive skin. Wash your hands at the end of each working section.
- c) Respiratory protection: Not required when sufficient ventilation is ensured. In the event of prolonged exposure to concentrations of airborne dust, wear respiratory protective equipment that complies with the requirements of European or national regulations.
- d) Thermal hazards: When specifying protective equipment used for protection against materials presenting a thermal hazard, particular attention must be paid to the design of the personal protective equipment. Not relevant for this product.

Other data (valid for the Czech Republic): The monitoring procedure for the content of substances in the air of workplaces and the specification of protective equipment shall be determined by the person responsible for occupational safety and health protection of workers. Legal entities and natural persons engaged in business are obliged to measure and check the values of concentrations of substances in the air of workplaces and to classify workplaces according to the categorisation of work activities.

8.2.3 Limiting environmental exposure

Observe handling and storage conditions, in particular secure the premises against leakage into watercourses, soil and drains. See Act No. 201/2012 Coll., on Air Protection, as amended; Act No. 254/2001 Coll., on Water, as amended. Prevent dust from stirring up.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) State of matter: Solid
- b) Colour: white
- c) Odour (smell): Odourless
- Odour threshold: Not relevant
- (d) Melting point (temperature range) / Freezing point (temperature range) (°C): > 1610°C
- (e) Boiling point or initial boiling point and boiling range (°C): Not found
- (f) Flammability: Non-flammable
- (g) Flammability or explosive limits:
- upper limit (% vol.): Not found
- lower limit (% vol.): Not found
- (h) Flash point (°C): Not found
- (i) Autoignition temperature: Not found
- (j) Decomposition temperature: Not found

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(k) pH (at 20°C):	5 – 8
l) Kinematic viscosity (°C):	N/A
m) Solubility (20°C):	in water: Slight Solubility in hydrofluoric acid: Yes
n) Partition coefficient: n-octanol / water:	Not applicable
o) Steam pressure (20°C):	N/A
(p) Density and/or relative density (g/cm ³ , 20 °C):	2-3 g/cm ³
q) Relative vapour density (at °C):	Non-explosive
(r) Particle characteristics	Grains 0 - 0.090 mm
(s) stability of dispersion in media:	N/A

9.2 Further information

Evaporation rate:	N/A
Dynamic viscosity:	N/A
Explosive properties:	None
Oxidation properties:	None
VOC content of the mixture (%):	None

SECTION 10: Stability and reactivity

10.1 Reactivity

Under normal conditions, there are no known special risks of reaction with other substances.
Inert, non-reactive.

10.2 Chemical stability

The product is stable when the established regulations and instructions for storage and use are followed.

10.3 Possibility of hazardous reactions

No hazardous reactions occur under normal conditions of storage and use.

10.4 Conditions to be avoided

Uncontrolled contact with water/moisture and acids.

10.5 Incompatible materials

No specific incompatibility.

10.6 Hazardous decomposition products

Not relevant.

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SECTION 11: Toxicological information

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

(a) Acute toxicity

According to the available information, the classification criteria are not met.

(b) Skin corrosion/irritation

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

(c) Serious eye damage/irritation

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

(d) Respiratory/skin sensitisation

May cause an allergic skin reaction.

(e) Germ cell mutagenicity

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

(f) Carcinogenicity

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

(g) Reproductive toxicity

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

(h) Specific target organ toxicity - single exposure

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

(i) Specific target organ toxicity - repeated exposure

This product contains respirable quartz as an impurity and is therefore classified as STOT RE1 according to the criteria defined in EC Regulation 1272/2008. Prolonged or extensive inhalation of respirable crystalline silica dust leads to deposition of these fine particles in the lungs, which can cause pulmonary fibrosis.

In 1997, the International Agency for Research on Cancer (IARC) concluded that crystalline silica inhaled from sources in the work environment can cause lung cancer in humans. However, the Agency stressed that not all industrial conditions or all types of crystalline silicon are to blame. (IARC Monograph on the Evaluation of Human Cancer Risk from Chemicals, Silica, Silica Dust and Organic Fibers, 1997, Volume 68, IARC, Lyon, France.) In June 2003, the EU Scientific Committee on Exposure Limits to Chemicals (SCOEL) concluded that the main effect of inhalation of respirable crystalline silica dust in humans is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and it appears it does not occur in workers without silicosis who are exposed to silica dust in the quarry and ceramics industries). Preventing silicosis therefore also reduces the risk of cancer..." (SCOEL SUM Doc 94-final, June 2003). There is evidence to support the fact that the increased risk of cancer is limited to people who already have silicosis. Protection of workers from silicosis should be ensured by respecting existing occupational exposure limits and implementing additional risk management measures where necessary (see section 16 below).

(j) Aspiration hazard

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

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Other data

In the form of dust, even when mixed with water, it seriously damages the eyes, irritates the respiratory organs and the skin. In very sensitive persons there is a risk of sensitisation by prolonged skin contact. Animal testing: Not conducted

11.1.1 Information for each hazard class or subdivision:

See above.

11.2 Information on other hazards

Not relevant.

11.2.1 Endocrine disrupting properties

Not relevant.

11.2.2 Further information

None.

SECTION 12: Ecological information

12.1 Toxicity

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

Fish

Information is not available.

Crustaceans

Information is not available.

Algae

Information is not available.

Other aquatic plants

Information is not available.

Soil micro-organisms and macro-organisms

Information is not available.

Other organisms important to the environment (birds, bees, plants)

Information is not available.

12.2 Persistence and degradability

Information is not available.

12.3 Bioaccumulation potential

Information is not available.

12.4 Mobility in soil

Slight.

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for classification as a PBT or vPvB substance.

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12.6 Endocrine disrupting properties

Not known.

12.7 Other adverse effects

See Section 2

SECTION 13: Disposal considerations

13.1 Waste management methods

a) Packaging specifications and methods for waste management, including appropriate waste management methods (e.g. incineration, recycling, landfilling)

The substance and its residues must be disposed of in suitable and designated waste collection areas. Waste may only be handed over to a person authorised to receive it. Contaminated containers are handed over for recycling or to an authorised person for disposal. Dispose of the waste in accordance with applicable legislation. Empty bags can be used for energy recovery in an incinerator or disposed of in a landfill of the appropriate classification. Empty plastic bags (LDPE) can be handed over for recycling.

Waste type code

16 03 04 Inorganic wastes other than those mentioned in 16 03 03

17 09 04 Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

Waste type code for packaging

15 01 01 Paper and paperboard packaging

15 01 02 Plastic packaging

b) Specification of physical/chemical properties that may affect the way the waste is managed

The formation of dust from residues must be avoided and appropriate protection of workers must be ensured.

c) Avoidance of waste disposal through sewers

Ensure sewer drains are covered with sewer plugs. Prevent further spread to the surrounding environment by containing the leaked mixture. Do not discharge down the drains. Waste should only be handed over to a person authorised under the Waste Act.

d) Special precautions for each recommended waste management method

Wear PPE (gloves, see section 8).

Relevant Union, national and regional waste provisions in force, where applicable

See section 15 of this safety data sheet.

SECTION 14: Shipping information

14.1 UN number or ID number

Not relevant.

14.2 Official (UN) name for transport

Not relevant.

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14.3 Hazard class(es) for transport

Not relevant.

14.4 Packaging group

Not relevant.

Warning label (Hazard Identification Number)

Not relevant.

Safety mark

Not relevant.

14.5 Environmental hazard

Not relevant.

14.6 Special precautions for users

See Section 8.

14.7 Maritime bulk transport according to IMO instruments:

Not relevant.

SECTION 15: Information on regulations

15.1 Safety, health and environmental regulations/specific legislation relating to the substance or mixture

Act No. 350/2011 Coll., on chemical substances and chemical preparations and on amendments to certain acts, as amended (including implementing regulations).

The current version of the Waste Act and its implementing decree.

The current version of the Packaging Act.

Act No. 267/2015 Coll., amending Act No. 258/2000 Coll., on the protection of public health and on amending certain related acts, as amended, and other related acts.

Government Regulation No. 361/2007 Coll., determining conditions of occupational health protection.

Act No. 201/2012 Coll. on Air Protection as amended.

Act No. 254/2001 Coll. on Water and on Amendments to Certain Acts, as amended.

EC Regulation 1907/2006 (REACH) as amended.

EC Regulation 1272/2008 (CLP) as amended.

Commission Regulation (EU) No 878/2020.

It does not contain a hazardous substance according to Annex II, Part 2 of EC Regulation 1272/2008.

15.2 Chemical safety assessment

Not carried out.

SECTION 16: Further information

The information in this Safety Data Sheet is based on current knowledge and EU and Czech legislation. It represents health, safety and environmental recommendations that are necessary for the safe use of the product.

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a) new edition

This safety data sheet fully replaces the safety data sheet of 1 November 2018 in order to bring the safety data sheet into compliance with Commission Regulation 878/2020.

b) Key or legend to abbreviations and abbreviated words

DNEL	Derived No Effect Level (derived concentration of a substance at which no adverse effects occur)
PNEC	Predicted No Effect Concentration (estimate of the concentration of the substance at which no adverse effects occur)
PEL	Permissible exposure limit long-term (8 hours)
NPK-P	Maximum permissible concentration, short-term limit
CLP	EC Regulation 1272/2008
REACH	EC Regulation 1907/2006
PBT	Persistent bioaccumulative and toxic substance
vPvB	very persistent and very bioaccumulative substance
LC ₅₀	The lethal concentration of a substance at which 50% of the population can be expected to die
LD ₅₀	The lethal dose of a substance at which 50% of the population can be expected to die
ppm	Number of particles per million (one millionth)
UFI	Unique identifier of the composition of the hazardous mixture
EU	European Union
CAS	Chemical Abstracts Service
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
VOC	Volatile organic compounds

(c) Relevant literature references and data sources

Professional databases and other regulations related to chemical legislation.
Freely available safety data sheets from global manufacturers and our suppliers.

(d) In the case of mixtures, an indication of which of the methods for evaluating the information referred to in Article 9 of Regulation (EC) No 1272/2008 has been used for classification purposes

Not relevant.

(e) List of relevant standard hazard statements and/or safety instructions

H372 Causes organ damage with prolonged or repeated exposure.

(f) Guidance on any training provided to personnel to ensure the protection of human health and the environment

General training for the safe handling of chemicals and mixtures.

Personnel must be trained in the proper use and handling of this product as required by applicable regulations.

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Further information

The information in this Safety Data Sheet is to the best of our current knowledge. The safety data sheet is based on the Annex to Regulation 1907/2006/EC. The classification of the mixture is made in accordance with the CLP Regulation as amended.

The given working conditions of the user are beyond our knowledge and control.

The user is responsible for compliance with all necessary legal guidelines.

Recommended restrictions on use (i.e. non-statutory recommendations by supplier):

The product should not be used for any purpose other than its intended use (see section 1.2). Since the specific conditions of use are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. The safety information describes the product from a safety point of view and cannot be considered as technical product information.

The packaging does not have to have a tactile warning for the blind or a child-resistant fastening.