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

1.1 Product identifier

Title: Quartz

Other product names: Silica sand, Quartzite

Business name:	Glass	Foundry	Technical	Other
	ST 08	ST 52	ST 01/06	ST 51
	ST 10	ST 53	ST 02/06	ST 92
	ST 12	ST 54	ST 03/08	ST 93
	ST 15	ST 55	ST 03/30	ST 94
	ST 15	ST 56	ST 05/10	ST 96
	ST 25		ST 06/12	ST 97
	ST 40		STF 06/12	ST 98
	ST 60		ST 10/40	
	STJ 06			
	STJ 08			
	STJ 09			
	STJ 10			
	STJ 12			
	STJ 25			

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 airborne ash and cannot provide adequate protection of persons from such dust.

The mixture may only be used for its intended purpose.

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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. Phone: 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 does not meet the criteria to be classified as hazardous

2.1 Classification of the substance or mixture

Classification (1272/2008):	Classification	H-phrases
	none	none

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), airborne, 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: none

Signal word: none

Standard hazard statements: none

Instructions for safe handling: none

Additional information on the label none

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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 EC number Registration number	Classification according to EC Regulation 1272/2008	
			Hazard class and category code	Standard hazard statement code
Quartz (SiO ₂)	> 98 %	EINECS: 238-878-4	not classified as a hazardous substance	
		CAS: 14808-60-7		

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

No acute and delayed symptoms and effects are observed.

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.

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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.

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

Avoid sweeping.

6.4 Link to other sections

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

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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

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

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%)	PELc
other silicates except asbestos	14808-60-7	2 mg/m ³	10: Fr mg/m ³	10 mg/m ³

Substances for which Union exposure limits have been assigned:

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			

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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.

8.2.2 Individual protective measures including personal protective equipment

Worker exposure limitation is governed by Government Regulation No. 390/2021 and EU Regulation No. 425/2016 on PPE, therefore, all personal protective equipment used must comply with this Regulation.

- a) Eye and face protection: Wear safety glasses with side covers if there is a risk of mechanical eye injury.
- b) Skin protection: No special requirements. For hands see below. Appropriate 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 Environmental exposure controls

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 the substance from being blown away by the wind.

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

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(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
(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):	N/A
q) Relative vapour density (at °C):	Non-explosive
(r) Particle characteristics	Grains 0 - 6.0 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.

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10.5 Incompatible materials

No specific incompatibility.

10.6 Hazardous decomposition products

Not relevant.

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

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

(j) Aspiration hazard

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

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.

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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.

12.6 Endocrine disrupting properties

Not known.

12.7 Other adverse effects

See Section 2

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SECTION 13: Removal instructions

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.

14.3 Hazard class(es) for transport

Not relevant.

14.4 Packaging group

Not relevant.

Warning sign (Hazard Identification Number)

Not relevant.

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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. The information contained herein cannot be considered as a guarantee of the suitability and applicability of the product for a specific application.

a) new edition

This safety data sheet fully replaces the safety data sheet of 1 October 2021 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)

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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

None.

(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.

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.

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.