

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Quartz sand

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code Quartz sand

Synonyms None.

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

Use of the Substance/Mixture Construction.

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Carlo Bernasconi AG
Hohlstrasse 444
8048 Zürich
Tel. 0848 38 80 00
Fax. 0848 38 80 01
info@carloag.ch

1.4. Emergency telephone number 145 (Tox Info Suisse)

Issuing date 30.12.2016

Version GHS 1

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Specific target organ toxicity (repeated exposure, inhalation), Cat. 2, H373

The product is classified and labelled according to Regulation (EC) No. 1272/2008 (CLP).

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Warning

Hazard Statements

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

P260d: Do not breathe dust.
P314: Get medical advice/ attention if you feel unwell.

Supplemental information

None.

Product identifier

Quarz, CAS-No. 14808-60-7, EC-No. 238-878-4

2.3. Other hazards

Depending on the handling and use (eg grinding, drying), the formation of air transmitted respirable crystalline silica is possible. Prolonged and / or massive inhalation of respirable crystalline silica can cause dust lung disease (silicosis). Main symptoms of silicosis are cough and difficulty in breathing. On occasional exposure to respirable crystalline silica, dust protection and monitoring measures should be in place.

3. Composition/information on ingredients

Chemical characterization Hard sedimentary rock SiO₂ containing.

Components		CLP Classification	Product identifier
Quarz	> 99%	STOT RE 2 H373i	CAS-No.: 14808-60-7 EC-No.: 238-878-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None.

4. First aid measures

4.1. Description of first aid measures

Inhalation	It is recommended to bring the exposed person from the contaminated area to fresh air. Consult a physician for severe cases.
Skin contact	Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Avoid breathing dust.

4.3. Indication of any immediate medical attention and special treatment needed None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media No special measures required.

Extinguishing media which must not be used for safety reasons None.

5.2. Special hazards arising from the substance or mixture The product itself does not burn.

5.3. Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus. Wear protective suit.

Specific methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Avoid dust formation. Avoid breathing dust.

Advice for emergency responders Avoid dust formation. Evacuate personnel to safe areas.

6.2. Environmental precautions Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections See chapter 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling	Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust formation. Avoid contact with eyes and skin.
7.2. Conditions for safe storage, including any incompatibilities	Store at room temperature in the original container. Keep container tightly closed. Keep in a dry place.
7.3. Specific end use(s)	No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) No data is available on the product itself.

Quarz (CAS 14808-60-7)
Switzerland – Occupational
Exposure Limits _ TWAs – (MAKs) 0.15 mg/m³ TWA [MAK] (respirable dust)

8.2. Exposure controls

Occupational exposure controls General industrial hygiene practice. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes.

Personal protection equipment

Respiratory protection Do not breathe dust. Suitable mask with particle filter P3 (European Norm 143)

Hand protection No special measures required.

Eye protection Avoid contact with eyes. In case of dust formation wear tightly fitting goggles.

Skin and body protection No special measures required.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Granular powder.
Colour	Natural colour.
Odour	Odourless.
Odour Threshold	No information available.
pH:	neutral
Melting point/range:	>1700 °C
Boiling point/range:	No information available.
Flash point:	does not flash
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapor density:	No information available.
Relative density:	2.65 g/ml
Water solubility:	insoluble
Partition coefficient (n-octanol/water):	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Combustion/explosion hazards:	not hazardous
Oxidizing properties:	None

9.2. Other information

Suitable solvents	Hydrofluoric acid
General Product Characteristics	Bulk density: ~ 1500 kg/m3.

10. Stability and reactivity

10.1. Reactivity	Reacts with acid with the evolution of CO ₂ .
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	Acids.
10.6. Hazardous decomposition products	None under normal use.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Quarz (CAS 14808-60-7) Oral LD50 Rat = 500 mg/kg (IUCLID)
Skin corrosion/irritation	None.
Serious eye damage/eye irritation	May irritate eyes.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	This product contains respirable quartz as an impurity, which is classified as STOT RE1 according to the criteria in the Regulation (EC) no. 1272/2008. Prolonged and/or massive exposure to dust containing respirable crystalline silica can cause silicosis. This disease is a nodular pulmonary fibrosis caused by inhalation and deposition of mineral dust.
Aspiration hazard	No data available.
Human experience	No data available.

12. Ecological information

12.1. Toxicity	No data available.
12.2. Persistence and degradability	Can be eliminated from water by sedimentation.
12.3. Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	This product has no known eco-toxicological effects.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations. EWC waste disposal No: 01 04 10. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

Regulatory Information	The product is classified and labelled according to Regulation (EC) No. 1272/2008.
Quarz (CAS 14808-60-7) EU - REACH (1907/2006) - Article 15(1) - Substances Regarded as Being Registered - Plant Health Products	Present (sand only uses as repellent may be authorised)



15.2. Chemical safety assessment

Excepted from the REACH obligation to register in accordance with Annex V, 7.

16. Other information

Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

Key literature references and sources for data

According to information supplied by the manufacturer.

Classification procedure

On basis of test data.

Full text of phrases referred to under sections 2 and 3

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

Training advice

Workers must be informed about the silica content of the product and must be trained in the intended use of the product.

Instructions for use

Restricted to professional users.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.