

Revision Date 14/06/2019
Date of the previous version 24/10/2014

Version 2
EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name	Quartz
Synonyms	Silica, crystalline
CAS-No	14808-60-7
EC-No	238-878-4
REACH Registration Number	Exempted in accordance with Annex V.7.
Formula	SiO ₂

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

Recommended Use	Concrete, Paint, Resins, Raw material for Glass, Filter material in water treatment plants, drilled wells and monitoring filters, Filling and embankment material in civil engineering and agricultural engineering.
Uses advised against	For all other applications, contact the supplier beforehand.

1.3. Details of the supplier of the safety data sheet

Kremer Zand en Grind
Pieter de Keyserstraat 3
7825 VE Emmen
Tel.: 0591 549 820
Fax: 0591 549 750
info@kremerzandengrind.nl

1.4. Emergency telephone number

UK National Health Service (NHS) call 111 or, in life-threatening emergencies, call 999

WAL National Health Service (NHS) call 0845 46 47

IE National Poisons Information Centre
+353 1 809 2566 or +353 1 837 9964 (only for healthcare professionals)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

This product should be handled with care to avoid dust generation.

Classification (1272/2008/EC)
Not classified.

2.2 Label elements

None.

2.3 Other hazards

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Quartz	238-878-4	14808-60-7	>99	-	Exempted
Quartz (fine fraction)	238-878-4	14808-60-7	<1	STOT RE 1 H372	Exempted

For the full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	No hazards which require special first aid measures
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a doctor.
Skin contact	No special first aid measures necessary.
Ingestion	No special first aid measures necessary.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms No acute and delayed symptoms and effects are observed.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None known.

5.2. Special hazards arising from the substance or mixture

Special Hazard None in particular.

5.3. Advice for firefighters

Special protective equipment for Wear self-contained breathing apparatus and protective suit.

fire-fighters

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Wear suitable protective clothing. For personal protection see section 8.

6.2. Environmental precautions

No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Use personal protective equipment Avoid dust formation. If necessary: Wet all spilled material. Clean up promptly by sweeping or vacuum.

6.4. Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Handle and open packages with care. If you require advice on specific uses, please contact your supplier.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Avoid dust formation. Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Exposure scenario Not available.

Other information Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Substance name	European Union	The United Kingdom	France	Spain	Germany
Quartz	TWA: 0.1 mg/m ³ resp (Directive 2017/2398)	TWA: 0.1 mg/m ³ resp	VME: 0.1 mg/m ³ alv	VLA-ED: 0.05 mg/m ³ resp	

Substance name	Italy	Portugal	Netherlands	Denmark	Poland
Quartz	TWA: 0.025 mg/m ³ resp	VLE-MP: 0.025 mg/m ³ resp	TGG: 0.075 mg/m ³ resp	GV: 0.3 mg/m ³ tot GV: 0.1 mg/m ³ resp	NDS: 0.1 mg/m ³ resp

Substance name	Belgium	Sweden	Hungary	Finland	Czech Republic
Quartz	TWA: 0.1 mg/m ³ resp	NGV: 0.1 mg/m ³ resp	AK: 0.15 mg/m ³ resp	HTP-arvot: 0.05 mg/m ³ resp	TWA: 0.1 mg/m ³ resp

Recommended monitoring procedures No information available.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Appropriate engineering controls Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment

Eye protection

Safety glasses with side-shields.

Hand Protection

No special protective equipment required. Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session. Wash hands before breaks and at the end of workday.

Skin and body protection

No special protective equipment required. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

Respiratory protection

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particle filters.

Hygiene Measures

Avoid dust formation. Avoid wind dispersal.

Environmental Exposure Controls No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state @20°C	Solid
Appearance	Granular (Grain shape: angular)
Colour	White - Brown
Odour	Odourless
pH	5 - 8 (@40% aqueous dispersion @20°C)
Melting/freezing point	> 1610 °C
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	2 - 3 (water = 1)
Solubility	
Water solubility	Negligible
Solubility in other solvents	Hydrogen fluoride
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available

Explosive properties
Oxidising properties

No information available
 No information available

9.2 Other information

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Inert, not reactive.

10.2. Chemical stability

Chemically stable.

10.3 Possibility of hazardous reactions

No hazardous reactions.

10.4. Conditions to avoid

None in particular.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Not relevant.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Ingestion	No known effect.
Skin contact	No known effect.
Inhalation	No known effect.

Substance name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quartz	>2000 mg/kg	>2000 mg/kg	

Skin corrosion/irritation No known effect.

Serious eye damage/irritation No known effect. Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation No known effect.

Germ cell mutagenicity Not known to cause heritable genetic damage.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive toxicity Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-single exposure No known effect.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required.

Aspiration hazard No known effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Contains no substances known to be hazardous for the environment.

12.2. Persistence and degradability

Not relevant.

12.3. Bioaccumulative potential

Not relevant.

12.4. Mobility in soil

Negligible.

12.5. Results of PBT and vPvB assessment

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

12.6. Other adverse effects

No specific adverse effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products

Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Avoid dust formation. Wear suitable protective clothing. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorised waste management company.

SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1. UN number

Not regulated.

14.2. UN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not regulated.

14.5 Environmental hazards

Not applicable.

IMDG/IMO

Marine pollutant: No.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Restrictions on use No information available.

Europe

REACH (1907/2006) This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).
This product does not contain candidate substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Seveso Not applicable.

Other Regulations No information available.

National regulatory information

The Netherlands

Substance name	Ministry of Social Affairs and Employment - List of Carcinogens	Ministry of Social Affairs and Employment - List of Reproductive toxins	Ministry of Social Affairs and Employment - List of Mutagens
Quartz	Present (respirable dust, crystalline)		

Germany

Substance name	WGK Classification (VwVwS)
Quartz	Reg. no. 849, non-hazardous to water

Denmark

Substance name	Danish Carcinogenic List

Quartz	2.0 % (respirable Crystalline silica including dust containing it, listed under Silica, crystalline)
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Other Regulations No information available.

International Regulations

United Nations Not listed for:
 The Stockholm Convention on Persistent Organic Pollutants
 The Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade
 Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal
 The Montreal Protocol on Substances that Deplete the Ozone Layer

15.2 Chemical safety assessment

Exempted from REACH Registration in accordance with Annex V.7 of Regulation (EC) 1907/2006.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3 H372 - Causes damage to lung through prolonged or repeated exposure by inhalation

Revision Note Remove 67/548/EEC and 1999/45/EC, National occupational exposure limits Toxicological information, Regulatory information.

Training Advice Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Abbreviations and acronyms EC: European Commission
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances
 STOT: Specific Target Organ Toxicity
 PBT: Persistent, Bioaccumulative, Toxic
 vPvB: very Persistent and very Bioaccumulating
 ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Dangerous Goods Code
 RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)

SDS No. KR00001 /CLP

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008.

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

End of Safety Data Sheet