

MATERIAL SAFETY DATA SHEET

Quartz (SiO₂)

1) IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Trade Name: Quartz
Chemical Name: Silicon Dioxide (SiO₂)
Synonyms Trade Name: Quartz, Synthetic Quartz Crystal, Silica
Form: Solid
Appearance: White, Odourless

2) HAZARDOUS IDENTIFICATION

Health: (1)
Flammability: (0)
Physical Hazard: (0)
Corrosivity: (0)
Toxicity: (1)

Point of Reference

0 = No effect, 1 = Low effect, 2 = Moderate Effect , 3 = Extremely Harmful

3) COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: Quartz
CAS number: 14808-60-7

Composition Analysis:

Quartz	as	SiO ₂ :	98.5 % Min.
Iron	as	Fe ₂ O ₃ :	0.045% Max.
Aluminium Ox.	As	Al ₂ O ₃ :	0.55 % Max.
Chromium III Ox.	As	Cr ₂ O ₃ :	0.0010 % Max.
Loss on Ignition	as	LOI:	0.45 %Max.

4) FIRST AID MEASURES

Eyes: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention

Skin: Treat any cuts in the normal way.

Inhalation: Inhalation of dust may cause difficulty in breathing and choking. Excessive inhalation of fine dust over long periods of time may cause Silicosis.

Shift to an area of clean dust free air. If not breathing give artificial respiration followed by oxygen. If irritation persists get medical help.

Ingestion: Induce vomiting if conscious. Immediately obtain medical attention.

5) FIRE FIGHTING MEASURES

Flash Point: Not ignitable. Not Applicable.

Unusual Fire Hazard: None

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6) ACCIDENTAL RELEASE MEASURES

Contamination Clean Up: Wear suitable protective clothing. Take up and containizer for proper disposal. Be careful of sharp pieces and cuts. Avoid making Dust.

7) HANDLING AND STORAGE

Usage Precautions: Protect against physical damage and avoid generating dust.

Storage precautions: Quartz is stable and inert to most chemicals, But may react to hot strong alkalis and with hydrofluoric acid.

Material should be stored in a dry and covered area.

8) PERSONAL PROTECTION: Avoid breathing dust when generated. Appropriate dust masks should be worn .

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Pieces / Powder

Odor: None

Flammability: Not Applicable

Explosive Properties: Not Applicable

Melting Point: 1500°C

Specific Gravity: 2.65

Vapor Pressure: Not Applicable

Solubility in Water: Insoluble

10) STABILITY AND REACTIVITY

Stability: Stable

Hazardous Decomposition: Stable

Material to Avoid: Strong Hot Alkali Solutions. Dissolves in Hydrofluoric, Fluosilicand Phosphoric Acids

11) TOXOLOGICAL INFORMATION

Toxic Dose-LD 50: 3160 mg/kg (Oral,Rat)

Carcinogenicity: Over and Unsafe Exposure leads to lung cancer.

Silicosis: Silicosis can occur after many years of exposure to level above the occupational exposure limits for airborne respirable quartz dust.

12) ECOLOGICAL INFORMATION

Not considered to be environmentally harmful.

13) DISPOSAL CONSIDERATION

General: Material should be under covered to minimize the generation of airborne dust.

14) TRANSPORT INFORMATION

Not subject to transport regulation.

15) REGULATORY INFORMATION

Safety Phrases: Avoid direct breathing. Mask must be worn.

Reactivity Phrases: Unreactable to chemicals except hot alkaline.

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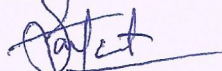
Label and Packing: None.

16) OTHER INFORMATION

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties

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