

EXHIBIT 25

Centers for Disease Control and Prevention, Crystalline Silica, Quartz,
CAS# 14808-60-7, CSC: 0808, NIOSH



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

(<https://www.cdc.gov>)

Promoting productive workplaces
through safety and health research **NIOSH**

QUARTZ

ICSC: 0808

Crystalline silica, quartz
Crystalline silicon dioxide, quartz
Silicic anhydride
SiO₂
Molecular mass: 60.1
ICSC # 0808

CAS # 14808-60-7
RTECS # VV7330000
September 10, 1997 Validated

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible.		In case of fire in the surroundings: all extinguishing agents allowed.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST!	
•INHALATION	Cough.	Local exhaust or breathing protection.	
•SKIN			
•EYES		Safety goggles, or eye protection in combination with breathing protection.	
•INGESTION			
SPILLAGE DISPOSAL		STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Wash away remainder with plenty of water. (Extra personal protection: P3 filter respirator for toxic particles).			
ICSC: 0808 Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities (C) IPCS CEC 1994. No modifications to the International version have been made except to add the OSHA PELs, NIOSH RELs and NIOSH IDLH values.			

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PHYSICAL STATE;

APPEARANCE:

COLOURLESS, WHITE OR
VARIABLE BLACK,
PURPLE, GREEN
CRYSTALS

PHYSICAL DANGERS:

CHEMICAL DANGERS:

Reacts with strong oxidants
causing fire and explosion
hazard.

OCCUPATIONAL

EXPOSURE LIMITS:

TLV: (respirable fraction)
0.025 mg/m³; A2
(suspected human
carcinogen); (ACGIH 2006).
MAK:
Carcinogen category: I
(DFG 2005).
OSHA PEL: See Appendix C
(Mineral Dusts)
NIOSH REL: Ca TWA 0.05
mg/m³ See Appendix A
NIOSH IDLH: Ca 25 mg/m³
(cristobalite, tridymite); 50
mg/m³ (quartz, tripoli) See:
14808607

ROUTES OF EXPOSURE:

The substance can be absorbed into the
body by inhalation.

INHALATION RISK:

Evaporation at 20°C is negligible; a
harmful concentration of airborne
particles can, however, be reached
quickly when dispersed.

**EFFECTS OF SHORT-TERM
EXPOSURE:**

**EFFECTS OF LONG-TERM OR
REPEATED EXPOSURE:**

The substance may have effects on the
lungs , resulting in fibrosis (silicosis).
This substance is carcinogenic to
humans.

**PHYSICAL
PROPERTIES**

Boiling point: 2230°C
Melting point: 1610°C

Relative density (water = 1): 2.6
Solubility in water: none

**ENVIRONMENTAL
DATA**

NOTES

Depending on the degree of exposure, periodic medical examination is indicated. CSQZ, DQ 12, Min-U-Sil, Sil-Co-Sil, Snowit, Sykron F300, Sykron F600 are trade names.

Card has been partially updated in January 2008: see Occupational Exposure Limits.

ADDITIONAL INFORMATION

ICSC: 0808

QUARTZ

(C) IPCS, CEC, 1994

**IMPORTANT
LEGAL
NOTICE:**

Neither NIOSH, the CEC or the IPCS nor any person acting on behalf of NIOSH, the CEC or the IPCS is responsible for the use which might be made of this information. This card contains the collective views of the IPCS Peer Review Committee and may not reflect in all cases all the detailed requirements included in national legislation on the subject. The user should verify compliance of the cards with the relevant legislation in the country of use. The only modifications made to produce the U.S. version is inclusion of the OSHA PELs, NIOSH RELs and NIOSH IDLH values.

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Content source: National Institute for Occupational Safety and Health (<https://www.cdc.gov/NIOSH/>)