

SAFETY DATA SHEET

QUARTZ (SiO₂) OPTICAL CRYSTAL

According to Regulation (EC) No.1907/2006 (REACH)

Revision 2016

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

CHEMICAL NAME: Quartz Crystal
SYNONYMS, TRADE NAMES: Quartz, Synthetic quartz crystal
DESCRIPTION: Inorganic crystalline pieces
USAGE: Optical coating monitoring crystal
APPEARANCE: Coated solid piece
SUPPLIER: TieWay International Inc. 1106 Del Mar Dr. Southlake, TX76092
2142237518

2. HAZARDS IDENTIFICATION



No Hazardous Product as specified in Directive 67/548/EEC

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS number	%	EC number (EINECS)	EU index	UN number
Silicon Dioxide (Quartz)	14808-60-7	100%	238-878-4	-	-

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: Remove to uncontaminated area. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may administer oxygen. Keep the affected person warm and at rest. Obtain medical attention.
INGESTION: Induce vomiting if conscious and as directed by a properly qualified person. Wash out mouth thoroughly with water. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Obtain Medical Attention Immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Ignitable. Not Applicable
UNUSUAL FIRE HAZARDS: None

6. ACCIDENTAL RELEASE MEASURES

CONTAMINATION CLEANUP: Wear suitable protective clothing & equipment as listed under Exposure / Personal protection. Take up and containerize for proper disposal. Be careful of sharp pieces and cuts. Avoid making dust. Containerize any cleaning materials used for proper disposal.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Protect against physical damage and avoid generating dust.
STORAGE PRECAUTIONS: Glass is stable and inert to most chemicals, but may react to hot strong alkalis and with hydrofluoric acid.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation. Avoid breathing dust when generated.

EXPOSURE LIMITS OES, 0.3 mg/m³ long term as total inhalable quartz dust

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Clear geometric shapes or pieces, no odour.
MELTING POINT:	1710°C
FLASH POINT:	Not Applicable
FLAMMABILITY:	Not Applicable
EXPLOSIVE PROPERTIES:	Not Applicable
SPECIFIC GRAVITY:	2.649
VAPOUR PRESSURE:	Not Applicable
SOLUBILITY IN WATER:	Practically insoluble.

10. STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS DECOMPOSITION:	Stable
MATERIALS TO AVOID:	Strong Hot Alkali solutions. Hydrofluoric, Fluosilicic and Phosphoric Acids

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD50	3160 mg/kg (oral, rat)
CARCINOGENICITY	No evidence of carcinogenic effects. Long term inhalation of dust can cause silicosis after extended delay.
MUTAGENICITY/TERATOGENICITY	No evidence of mutagenic or teratogenic effects
TOXICOLOGICAL FINDINGS	Glass has no known toxicological effects.

12. ECOLOGICAL INFORMATION

None available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Should be disposed of carefully in designated glass disposal bins.
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14. TRANSPORT INFORMATION

Not subject to transport regulations

15. REGULATORY INFORMATION

CLASSIFICATION:	Not classified as dangerous according to EC Directives.
LABEL FOR SUPPLY:	None

RISK PHRASES:

SAFETY PHRASES:

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.

