

BANTHIA INDUSTRIAL CORPORATION

Registered Office : 76-D Harish Chatterjee Street, Opp: Harish Park, Bhawanipur

Banthia [Jain] House , Kolkata-700025 (W.B) INDIA.

MSME Regtn: UDYAM-WB-10-0064318, Phone: +91-33-65352095/9836068831/32

Email ID : banthiaindustrialcorp@gmail.com /GST NO 19AFVPJ5915P1ZF

[Manufacturer/ Processors/ Importer/ Exporter/ Stockiest]

MATERIAL SAFETY DATA SHEET

(As per rule 63D)

1) IDENTIFICATION OF THE SUBSTANCE

Product Name	: Quartz Sand
Product Information	
Main application of Quartzite	: Glass, Silicate Chemistry, abrasives Foundry sand, filler for textured coatings, Glues and mortars, filtration, sports and Leisure, specialist construction...

2) COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	: SiO ₂ (ca. 99.2-6%)
Mineralogical	: Alpha Quartz E.I.N.E.C.S. No. 238-78-4
C.A.S.	: 14808-60-7
EU-classification	No Classification
IUPAC Name	: Silicon di-oxide
Density	: 2.65 g/cm ³
SiO ₂ %	: 98%(±1%)
Grain Shape	: Sub-angular
Particle size range	: Technical Data Sheet
Solubility in hydrofluoric acid	: Yes
Melting Point	: 1700-1750 °C
Molecular weight	: 60.1
Hardness(Mohs)	: 7



3) HAZARDS IDENTIFICATION

The grain size distribution of quartzite means that it is not hazardous. However, any respirable crystalline silica dust generated by processing and handling of quartzite may cause health effects. 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.

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4) FIRST-AID MEASURES:

No actions are to be avoided, nor are there any special instructions for rescuers.

Eye contact : Wash with copious quantities of water

Ingestion : Non-toxic

Inhalation : No special first aid measures. Remove to fresh air and consult a physician.

Skin Contact : No special first aid measures necessary.

5) FIRE FIGHTING MEASURES:

Does not burn. No hazardous releases in case of fire.

6) ACCIDENTAL RELEASE MEASURES:

Personal precautions : Avoid airborne dust generation. In case of exposure to airborne dust concentrations exceeding regulatory limits, wear a personal respirator in compliance with national legislation.

Environmental precautions : No special requirements.

Methods for cleaning up : Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation.

7) HANDLING

Avoid airborne dust generation.

Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Please contact your supplier if you require advice on safe handling techniques.



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8) STORAGE:

Technical measures/ precautions ensure abatement of dust produced during the loading of silos. Keep containers closed and store/handle bagged products so as to prevent accidental bursting.

9) EXPOSURE CONTROL / PERSONAL PROTECTION:

Exposure limit values: Respect workplace regulatory provisions for all types of airborne dust (respirable and respirable crystalline silica dust). The workplace OEL (Occupational Exposure Limit) for respirable crystalline silica dust in mg/m^3 as per the second schedule of the factories act 1948, measured as an 8 hour TWA (Time Weighted Average).

Exposure Controls:

9.1 Exposure limit values :- Respect workplace regulatory provisions for all types of airborne dust (inhalable dust and respirable crystalline silica dust). The Workplace OEL (Occupational Exposure Limit) for respirable crystalline silica dust as per the second schedule of the Factories act 1948, measured as an 8 hour TWA (Time Weighted Average).

9.2 Exposure Controls :

9.2.1 Occupational exposure controls:

Provide appropriate local exhaust ventilation in places where dust is generated. Control of occupational exposure may also be achieved by enclosing plant and equipment, by isolating personnel from dusty areas and by ensuring good standards of ventilation in the workplace.

9.2.1.1 Respiratory protection:

In case of exposure to airborne dust concentrations exceeding regulatory limits, wear a personal respirator that complies with the requirements of national legislation.

9.2.1.2 Eye Protection:

Wear Safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

9.2.2 Environmental exposure controls

No special requirements



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10) PHYSICAL AND CHEMICAL PROPERTIES

General information:

Appearance: solid, granular or powder white colour or semi transparent

Important health , safety and environmental information:

Density	2.65 g/cm ³
SiO ₂ %	Ca. 99%
Grain Shape	Sub-angular
Particle Size Range	Technical data Sheet
Solubility in water	Negligible
Solubility in hydrofluoric acid	Yes
Other Information	
Melting Point	1700-1750 [^] C
Molecular Weight	60.1
Hardness(Mohs)	7

11) STABILITY AND REACTIVITY

Chemically stable, no particular incompatibility

12) TOXICOLOGY INFORMATION:

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a modular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. In 1997, IARC (the International Agency for Research on cancer) concluded that *crystalline silica* inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances , nor all crystalline silica types, were to be incriminated. (IARC Monographs on the *evaluation* of the carcinogenic risks of chemicals to humans, silica, silicates dust and organic fibres, 1997 Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) *concluded* that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There *is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..."



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There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

13) **ECOLOGICAL INFORMATION:** No specific adverse effects known.

14) **DISPOSAL CONSIDERATIONS:**

Waste from residues / unused products

Can be land filled in compliance with local regulations. The material should be buried to prevent dust being picked up by the wind. Where possible, recycling is preferable to disposal. The substance has not been included in the EU Waste Catalogue.

15) **TRANSPORT INFORMATION:**

No Special precautions are required under regulations relating to the transportation of dangerous goods.

16) **REGULATORY INFORMATION:**

The substance has not been classified at EU level, under regulations relating to dangerous substances and preparations.

17) **DISCLAIMER:**

Information contained in this data-sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or result to be obtained from them. It is up to the manufacturer or seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/handled or sold by him as the case may be. The Government makes no warranties expressed or implied in respect of the adequacy of this document for any particular.

18) **SIGNATURE BLOCK:**

I, GAURAV JAIN, CEO of BANTHIA INDUSTRIAL CORPORATION do hereby certify that the information provided in this Material Safety Data Sheet is accurate and up-to-date. I understand that it is my responsibility to ensure that this information is communicated to all relevant parties and that any updates are promptly reflected in future revisions."



Banthia Industrial Corporation

Signature: GAURAV JAIN
(Proprietor)