Material Safety Data Sheet

Silica Sand (RXSOL-81-8119-025)

1. Product and Company Identifaction

Product Name	Silica Sand
Product Type	RXSOL-81-8119-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

STOCK POINT : MUMBAI, Kandla, Chennai, Vizag, Kolkata, Fujairah

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

Name	CAS#	% by Weight
Crystalline Silica (quartz)	14808-60-7	99.0 – 99.9
Aluminum Oxide	1344-28-1	1.0
Iron Oxide	1309-37-1	0.1
Titanium Oxide	13463-67-7	0.1

3. Hazards Identification

Inhalation:	:- Silicosis: The prolonged repeated inhalation of respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. :- Lung Cancer: Crystalline silica is classified as carcinogenic to humans. :- Tuberculosis: Silicosis increases the risk of tuberculosis. :- Autoimmune and Chronic Kidney Diseases: Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. :- Non-Malignant Respiratory Diseases (other than silicosis): Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.
Ingestion	Not applicable.
Skin contact	Not applicable.
Eye contact:	Crystalline silica (sand or ground silica) may cause abrasion of the cornea.

4. First Aid Measures

Eye Contact	Wash immediately with plenty of water. If irritation persists, seek medical attention.
Skin Contact	Not applicable
Inhalation	No specific first-aid is necessary since the adverse health effects associated with inhalation of respirable crystalline silica result from chronic exposures. If there is a gross inhalation of crystalline silica, remove the person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.
Ingestion	Not applicable

5. Fire-fighting Measures

Extinguishing Media :	Product is not flammable, combustible or explosive. Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures	: Not applicable

6. Accidental Release Measures

Personal precautions:

Avoid generating dust. If the concentration of respirable silica dust exceeds the OSHA PEL or other applicable limit (if lower than the PEL), wear respirator specified in Section 8 of this Safety Data Sheet.

Environmental precautions:

No specific precautions. Discard any product, residue, disposable container or liner in compliance with regulatory requirements. Methods for cleaning up: Avoid dry sweeping. Do not use compressed air to clean spilled sand or ground silica. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system. Dispose of in closed containers.

7. Handling and Storage

Handling	Avoid generating dust. Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Use adequate exhaust ventilation and dust collection. Maintain and test ventilation and dust collection equipment. Use all available work practices to control dust exposures, such as water sprays. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Keep airborne dust concentrations below permissible exposure limits.
Storage	Use dust collection to trap dust produced during loading and unloading. Keep containers closedand store bags to avoid accidental tearing, breaking, or bursting.

8. Exposure controls and personal protection

Engineering Controls	Ventilation must be adequate to maintain the crystalline silica concentrations in the workplace air below the exposure limit(s) outlined in Section 8.3.1 of this Safety Data Sheet.
Respiratory Protection	In case of exposure to dust, and in any case if such exposure is above regulatory limits (see above), wear a personal respirator as outlined in Section 8.2 above.
Eye / Face Protection	If eye contact while using product may be anticipated, wear appropriate safety glasses with side shields or chemical goggles [as described by European Standard EN 166].
Skin Protection	Maintain good industrial hygiene. Protection recommended for workers suffering from dermatitis or sensitive skin.

9. Physical and chemical properties

Physical State	White or tan sand: granular, crushed or ground to a powder.
Odor	None
pH	6 - 8
Specific Gravity	2.65 g/cc
Melting Point	3110°F/1710°C
Freezing Point	Not Applicable
Boiling Point	4046°F/2230°C
Flashpoint	Not Applicable
Flammability	Not Applicable
Explosive properties	Not Applicable
Oxidizing properties	contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, and oxygen difluoride may cause fires.
Vapor Pressure	None
Relative Density	Not Applicable
Solubility	Silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride
Water Solubility	Insoluble
Percent Volatiles by Volume	Not Applicable
Viscosity	Not Applicable

10. Stability and reactivity

Chemical Stability	Stable
Conditions to Avoid	Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, and oxygen difluoride may cause fires.
Materials / Chemicals to Be Avoided	Contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires.
Hazardous Decomposition Products	Will not occur
Hazardous Polymerization	Will not occur

11. Toxicological information

Inhalation:	a. Silicosis: The prolonged repeated inhalation of respirable crystalline silica can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. b. Lung Cancer: Crystalline silica is classified as carcinogenic to humans. c. Tuberculosis: Silicosis increases the risk of tuberculosis. d. Autoimmune and Chronic Kidney Diseases: Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. e. Non-Malignant Respiratory Diseases (other than silicosis): Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.
Ingestion	Not applicable.
Skin contact	Not applicable.
Eye contact:	Crystalline silica (sand or ground silica) may cause abrasion of the cornea.

12. Ecological information

Ecotoxicological Information	Crystalline silica (quartz) is not known to be ecotoxic; i.e., no data suggests that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms or plants.

13. Disposal considerations

Waste Disposal Method	Discard any product, residue, disposable container or liner in full compliance with national regulations.
Container Handling and Disposal	Dispose of container and unused contents in accordance with national regulations.

14. Transport information

NA

15. Regulatory information

NA

16. Other information

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