

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

SECTION 1- PRODUCT AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special-0		HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection- 0	
MANUFACTURED BY: MISSION LABORATORIES Address: 2433 BIRKDALE STREET LOS ANGELES, CA 90031		DOT Hazard Classification: NON-HAZARDOUS Identity (trade name as used on label): WHITE SAND	
Date Prepared: 07/11/07	Prepared By: DS	MSDS Number: F1355	Revision-
Information Calls: (323) 223-1405 EMERGENCY RESPONSE NUMBER: (800) 535-5053		NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA	

SECTION 2 – HAZARDOUS MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TWA (ppm)	Carcinogen Ref. Source **
CRYSTALLINE FREE SILICA	14808-60-7	N/E	0.1MG/M3	0.1MG/M3	NTP/IARC

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 4046°F	Specific Gravity (H ₂ O=1): 2.65
Vapor Pressure (mm Hg): N/A	Melting Point: 3050° F
Vapor Density (Air=1): N/A	Evaporation Rate (Butyl Acetate=1): None
Solubility in Water: Insoluble	VOLATILE ORGANIC CONTENT (VOC's): 0
Appearance and Odor: White sand - granular, crushed, or ground with no apparent odor.	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST NON FLAMMABLE	Auto Ignition Temperature N/E	Flammability Limits in Air by % in Volume: NA
FLASH POINT AND METHOD USED: N/A SPECIAL FIRE FIGHTING PROCEDURES: N/A	EXTINGUISHER MEDIA: N/A	
Unusual Fire & Explosion Hazards: N/A		

SECTION 5 - REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fires.	Conditions to Avoid: None
Hazardous Decomposition Products: Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.	

SECTION 6 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE AND CHRONIC EFFECTS: Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Acute or rapidly developing silicosis may occur in a short period time in heavy exposure in certain occupations such as sandblasters. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.	
SIGNS AND SYMPTOMS OF EXPOSURE: Undue breathlessness, wheezing, cough and sputum production.	
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.	

SECTION 7- EMERGENCY FIRST AID PROCEDURES

Eyes: Flush thoroughly with cool running water.	Inhalation: Remove person to fresh air, give artificial respiration if needed.
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SECTION 8 – PERSONAL PROTECTION

Respiratory Protection (specify type): NONE NEEDED WITH GOOD VENTILATION.	
Protective Gloves: Optional.	Eye Protection: SAFETY GLASSES OR MONOGOGGLES.
Ventilation Requirements: GOOD VENTILATION SHOULD BE MAINTAINED.	
Other Protective Clothing & Equipment: NONE	
Hygienic Work Practices: Avoid creating and breathing dust.	

SECTION 9 – ACCIDENTAL RELEASE PROCEDURES

Steps To Be Taken If Material Is Spilled Or Released: Use dustless methods (vacuum) and place into closable container for disposal, or flush with water. Do not dry sweep. Wear protective equipment (respirator).	
Waste Disposal Methods: Dispose in accordance with Federal, State, and local regulations.	
Precautions To Be Taken In Handling & Storage: STORE IN A COOL WELL VENTILATED AREA AWAY FROM SPARK, HEAT AND OPEN FLAME.	
Other Precautions &/or Special Hazards: Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. See OSHA Hazard Communication Rule 29 CFR Sections 1910.1200, 1915.99, 1917.28, 1918.90, 1926.59, and 1928.21, and state and local worker or community "right to know" laws and regulations. We recommend that smoking be prohibited in all areas where respirators must be used. WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS-USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARD AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT THE THE OSHA PRECAUTIONS. KEEP OUT OF REACH OF CHILDREN.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only