

# MATERIAL SAFETY DATA SHEET

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

IDENTITY AND MANUFACTURER'S INFORMATION						
NFPA Rating: Health-1; Flammability-0; Reactivity-0; Special-0			HMIS Rating: Health-1; Flammability-0; Reactivity-0; Personal Protection- 0			
<b>MANUFACTURED BY: MISSION LABORATORIES</b> Address: 2433 BIRKDALE STREET LOS ANGELES, CA 90031			DOT Hazard Classification: NON-HAZARDOUS Identity (trade name as used on label): <h2 style="text-align: center;">BLACK SAND</h2>			
Date Prepared: 09/25/03		Prepared By: MM		MSDS Number: F1355BS		Revision-
Information Calls: (323) 223-1405			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
EMERGENCY RESPONSE NUMBER: (800) 255-3924						
SECTION 1 - 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 **
<b>VITREOUS SMELTER SLAG</b> 99.00-100% 38.1% SiO <sub>2</sub> ; 27.4% Fe <sub>2</sub> O <sub>3</sub> ; 22.8% CaO; 5.7% Al <sub>2</sub> O <sub>3</sub> ; 3.9% MgO; other fused oxides @ <1.0%. Chemical composition shown is typical, elemental concentrations may vary slightly between batches or lots.		67711-92-6	N/E	10 mg/m <sup>3</sup>	N/E	N/E
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: N/A			Specific Gravity (H <sub>2</sub> O=1): 2.8			
Vapor Pressure (mm Hg): N/A			Melting Point: 2400° F			
Vapor Density (Air=1): N/A			Evaporation Rate: None			
Solubility in Water: None			/Butyl Acetate=1): None			
Appearance and Odor: Black angular to sub-angular granules with no apparent odor.						
SECTION 3 - 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			EXTINGUISHER MEDIA: N/A			
SPECIAL FIRE FIGHTING PROCEDURES: N/A						
Unusual Fire & Explosion Hazards: N/A						
SECTION 4 - 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): N/A			Conditions to Avoid: None			
Hazardous Decomposition Products: None						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS: <i>Trauma</i> hazard associated with handling equipment or sudden release of large volumes. Abrasion injuries possible during blasting operations or similar exposure.			CHRONIC EFFECTS: <i>Respiratory</i> illness as a result of long-term exposure to particulates is possible. NIOSH-approved particulate respirators should be used during blasting operations. Company testing indicates no PEL Exposures in the blasting environment of any trace metal contaminants. Job specific trace heavy metal PEL testing needs to be conducted by users in accordance with all OSHA regulations.			
Inhalation: Fine particulates (PM-10) in the form of dust possible during blasting, loading/unloading, processing and packaging.						
Eye Contact: Abrasion injuries possible if safety glasses are not worn. Contact lens use may be dangerous when handling this product.						
Skin Contact: Abrasion injuries with high velocity, direct exposure to skin.			Ingestion: Toxic effects will now occur.			
SIGNS AND SYMPTOMS OF EXPOSURE: Likely only in extreme and unusual conditions:						
Inhalation: Coughing, shortness of breath.			Eye Contact: Redness, watering.			
Skin Contact: Redness, sensitivity.			Ingestion: Unknown.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Likely only in extreme and unusual conditions:						
Inhalation: Existing disorder increases risk of discomfort and injury.			Eye Contact: Contact lens use increase risk of discomfort and injury.			
Skin Contact: Existing disorder.			Ingestion: Unknown.			
EMERGENCY FIRST AID PROCEDURES						
Trunk/torso/limbs: Follow procedures to abrasion or trauma injuries.			Skin: Follow procedures appropriate to abrasion injuries.			
Eyes: Flush thoroughly with cool running water.			Inhalation: Follow procedures appropriate to dust inhalation.			
Ingestion: Not likely.			Note to Physicians: No toxic substances are present in this product.			
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): None needed if used in a properly ventilated area.						
Protective Gloves: Neoprene or Rubber Gloves.			Eye Protection: SAFETY GLASSES OR MONOGOGGLES.			
Ventilation Requirements: GOOD VENTILATION SHOULD BE MAINTAINED.						
Other Protective Clothing & Equipment: Impervious apron and boots. Provide emergency safety showers and eye wash fountain near work area.						
Hygienic Work Practices: Do not mix this product with other chemicals. Toxic Fumes may be emitted.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: KEEP UNNECESSARY PEOPLE AWAY. CONTAIN WITH INERT MATERIAL. COLLECT FOR DISPOSAL.						
Waste Disposal Methods: CONSULT LOCAL AUTHORITY FOR ALTERNATE METHODS. OBSERVE ALL LOCAL, STATE & FEDERAL 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: 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