

# 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-1; Flammability-0; Reactivity-0; Special-0		HMIS Rating: Health-1; 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): BLACK SAND	
Date Prepared: 01/10/07 Prepared By: DS		MSDS Number: F1355BS 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 **
VITREOUS SMELTER SLAG 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 3 - 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	Volatile Organic Content (VOC's): 0
Appearance and Odor: Black angular to sub-angular granules 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 [ X ] STABLE [ ] UNSTABLE	HAZARDOUS POLYMERIZATION [ ] WILL [ X ] WILL NOT OCCUR
Incompatibility (Mat. to avoid): N/A	Conditions to Avoid: None
Hazardous Decomposition Products: None	

## SECTION 6 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ X ] EYE [ ] 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.

## SECTION 7- 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 8 – PERSONAL PROTECTION

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: NONE	
Hygienic Work Practices: Do not mix this product with other chemicals. Toxic Fumes may be emitted.	

## SECTION 9 – ACCIDENTAL RELEASE PROCEDURES

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