

**GREEN  DIAMOND  
SAND PRODUCTS  
FOUNDRY PRODUCTS**

**MATERIAL SAFETY  
DATA SHEET**

<b>SECTION I - PRODUCT IDENTIFICATION</b>		<b>HMIS</b>
Manufacturer's Name:	Green Diamond Sand Products	Health - O
Telephone:	(541) 874-3111	Flammability - O
Address:	PO Box D, Riddle, OR 97469	Reactivity - O
Date Prepared:	August 1, 2010	Protective Gear - E

<b>SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION</b>			
Hazardous Components (Specific Chemical ID - Common Names)	CAS No.	ACGIH TLV	OSHA PEL
SiO <sub>2</sub> (Silicates)	112926-00-8	10 mg/m3	10 mg/m3
MgO (Magnesium Oxide)	1309-48-4	10 mg/m3	10 mg/m3
Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)	1309-37-1	10 mg/m3*	10 mg/m3
Al <sub>2</sub> O <sub>3</sub> (Aluminum Oxide)	1344-28-1	10 mg/m3	10 mg/m3
CaO (Calcium Oxide)	1305-78-8	2 mg/m3	5 mg/m3
Ni (Nickel)	7440-02-0	1 mg/m3	1 mg/m3
Cr <sub>2</sub> O <sub>3</sub> (Chromium Oxide)	1308-38-9	10 mg/m3*	15 mg/m3*
*Regulated as for nuisance particulate (dust).			

<b>TYPICAL ANALYSIS:</b>		
SiO <sub>2</sub>	50.2%	<i>All SiO<sub>2</sub> reported in Green Diamond materials is in the form of silicates and contains <b>no</b> crystalline silica. Crystalline silica is the only form of silica suspected of being carcinogenic.</i>
MgO	31.4%	
Fe <sub>2</sub> O <sub>3</sub>	15.9%	
Al <sub>2</sub> O <sub>3</sub>	1.6%	
CaO	0.7%	
Ni + NiO	<.1%	
Cr <sub>2</sub> O <sub>3</sub>	.1%	
Trace Elements & Compounds (total)	1.5%	
TOTAL	99.8%	

<b>SECTION 313: SUPPLIER NOTIFICATION</b>		
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):		
<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
7440-02-0	Nickel	<.1%
This information should be included in all MSDSs that are copied and distributed for this material.		

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point:	NA
Vapor Pressure (mm Hg.):	NA
Vapor Density (AIR = 1):	NA
Specific Gravity (H2O = 1):	3.0
Melting Point:	2,650 Deg. F
Evaporation Rate:	NA
Solubility in Water:	Not soluble in water
Appearance and Odor:	Green, Gray granular, no odor

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point:	NA
Flammable Limits:	NA
Extinguishing Media:	NA
Special Fire Fighting Procedures:	None
Unusual Fire & Explosion Hazards:	None

**SECTION V - REACTIVITY DATA**

Stability:	Stable
Conditions to Avoid:	None
Incompatibility (materials to avoid):	None
Hazardous Decomposition or By-Products:	None
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None

**SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry:	Inhalation?	Yes
	Skin?	No
	Ingestion?	No
Health Hazards (Acute & Chronic):		No specific health hazards; should avoid specified limits for compounds listed in Section II.
Carcinogenicity:	NTP?	No
	IARC Monographs?	No
	OSHA Regulated?	Yes, control for compounds in Section II and for nuisance dust.
Sign & Symptoms of Exposure:		Typical of over exposure to nuisance dust.
Medical Conditions Generally Aggravated by Exposure:		Respiratory conditions.
Emergency & First Aid Procedures:		As relevant for over exposure to nuisance dust.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be Taken in Case Material is Released or Spilled:	Clean up with broom or vacuum.
Waste Disposal Method:	Follow federal, state, and local regulations for disposal as in inert solid waste.
Precautions to be Taken in Handling & Storing:	No specific precautions.
Other Precautions:	None

## SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type):	NIOSH/OSHA/MSHA approved particulate filter respirator.
Ventilation:	Yes
Local Exhaust:	Yes
Mechanical (General):	Use to meet TLV requirement if dust is generated.
Special:	None
Other:	None
Protective Gloves:	Yes, if handling.
Eye Protection:	Yes, safety glasses.
Other Protective Clothing or Equipment:	Appropriate apparel.
Work/Hygienic Practices:	Use material for the purpose intended and incorporate methods of dust control that are effective in maintaining airborne dust concentrations within the TLV.

## NOTICE

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