



**Section 1 - Chemical Product and Company Identification**

**Product Name:** Green Diamond Abrasives  
**Manufacturer:** Green Diamond Sand Products  
 PO Box D  
 Riddle, OR 97469  
 (541) 874-3111

**Section 2 – Hazard Identification**

**Physical State:** Solid, granular  
**Emergency Overview:** Due to the low toxicity of this product, it is not expected to pose a risk of acute or chronic health effects of released or spilled. However, spills should be immediately cleaned by sweeping or vacuuming.  
**Target Organs:** May cause respiratory irritation upon exposure to high airborne concentrations. May cause eye irritation if material contacts eye.  
**Potential Acute Health Effects**  
**Eyes:** May cause irritation to eyes  
**Skin:** May cause irritation or abrasion  
**Inhalation:** May cause irritation upon exposure to high airborne concentrations  
**Ingestion:** May cause digestive irritation, but not expected to cause adverse systemic effects  
**Potential Chronic Health Effects**  
**Target Organs:** Not likely to cause chronic effects to any target organs or systems  
**Medical Conditions Potentially Aggravated by Overexposure:** None expected  
**GHS Health Hazard Classification:** N/A  
**GHS Physical Hazard Classification:** N/A  
**GHS Signal Word(s):** None Required  
**GHS Hazard Statement(s):** None Required  
**GHS Precautionary Statement(s):** None Required  
**GHS Pictograms:** None Required  
**NFPA Hazard Classification:** Health: 0, Fire: 0, Reactivity: 0  
**HMIS Hazard Classification:** Health: 0, Fire: 0, Reactivity: 0, Protection: K

**Section 3 – Composition / Mixture Ingredient Information**

Ingredient (Component)	CAS Number	%wt
SiO <sub>2</sub> (Silicates - Amorphous)*	112926-00-8	50.2
MgO (Magnesium Oxide)	1309-48-4	31.4
Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)	1309-37-1	15.9
Al <sub>2</sub> O <sub>3</sub> (Aluminum Oxide)	1344-28-1	1.6
CaO (Calcium Oxide)	1305-78-8	0.7
Ni (Nickel) and NiO (Nickel Oxide)	7440-02-0	<0.1
Cr <sub>2</sub> O <sub>3</sub> (Chromium Oxide)	1308-38-9	0.1
Trace Elements and Compounds	N/A	1.5

\*Contains no free crystalline silica

#### **Section 4 – First Aid Measures**

<b>Inhalation:</b>	Remove from exposure situation and move to fresh air. Seek medical attention if symptoms persist.
<b>Eye Contact:</b>	Flush eyes with large amounts of water for 15 minutes. Remove contact lenses, hold eyelids open to ensure thorough flushing. Seek medical attention if eye damage is suspected.
<b>Skin Contact:</b>	Wash or brush material off skin. If irritation occurs, seek medical attention.
<b>Ingestion:</b>	If person is conscious, give large quantity of water and induce vomiting; however, never attempt to make an unconscious person drink or vomit. Get immediate medical attention.

#### **Section 5 – Fire-Fighting Measures**

<b>Flammability:</b>	Non-Flammable, Non-Combustible
<b>Flash Point:</b>	N/A
<b>Flash Point Method:</b>	N/A
<b>Auto-ignition Temperature:</b>	Not Established
<b>LEL:</b>	N/A
<b>UEL:</b>	N/A
<b>Extinguishing Media:</b>	N/A
<b>Products of Combustion:</b>	None
<b>Fire-Fighting Instructions:</b>	None
<b>Fire-Fighting Equipment:</b>	None

#### **Section 6 – Accidental Release Measures**

<b>Spill and Leak Procedure:</b>	Clean spills with broom, vacuum cleaner, shovel or scoop. Although the toxicity of this product is extremely low, it is advisable to minimize the creation of airborne dust.
<b>Containment:</b>	Contain spilled material in an appropriate container.
<b>Regulatory Requirements:</b>	Dispose of waste material in accordance with federal, state and local solid waste disposal regulations and requirements.

#### **Section 7 – Handling and Storage**

<b>Handling Precautions:</b>	Avoid generating excessive airborne dust.
<b>Storage Requirements:</b>	No special storage requirements.



**Section 8 – Exposure Controls / Personal Protection**

**Occupational Exposure Limits\***

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Amorphous Silica <sup>1</sup>	10 mg/m <sup>3</sup>	N/A	10 mg/m <sup>3</sup>	N/A	6 mg/m <sup>3</sup>	N/A	3000 mg/m <sup>3</sup>
Magnesium Oxide	15 mg/m <sup>3</sup>	N/A	10 mg/m <sup>3</sup>	N/A	N/A	N/A	750 mg/m <sup>3</sup>
Iron Oxide (Dust)	10 mg/m <sup>3</sup>	N/A	5 mg/m <sup>3</sup>	N/A	mg/m <sup>3</sup>	N/A	2500 mg/m <sup>3</sup>
Aluminum Oxide <sup>2</sup>	10 mg/m <sup>3</sup>	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum Oxide <sup>3</sup>	5 mg/m <sup>3</sup>	N/A	1 mg/m <sup>3</sup>	N/A	N/A	N/A	N/A
Calcium Oxide	5 mg/m <sup>3</sup>	N/A	2 mg/m <sup>3</sup>	N/A	2 mg/m <sup>3</sup>	N/A	25 mg/m <sup>3</sup>
Nickel	1 mg/m <sup>3</sup>	N/A	1.5 mg/m <sup>3</sup>	N/A	0.015 mg/m <sup>3</sup>	N/A	10 mg/m <sup>3</sup>
Chromium Oxide	0.5 mg/m <sup>3</sup>	N/A	0.5 mg/m <sup>3</sup>	N/A	N/A	N/A	N/A

<sup>1</sup>As amorphous silica and non-crystalline silicates

<sup>2</sup>As total dust

<sup>3</sup>As respirable dust

\*Refer to federal, state and local occupational exposure limits. Some jurisdictions have published limits that are different from those listed.

**Exposure Controls and Personal Protection**

- Engineering Controls:** Provide general or local exhaust ventilation systems in order to maintain airborne concentrations below occupational exposure limits. Local exhaust ventilation should be used whenever possible to prevent the dispersal of airborne contaminants into the work area.
- Respiratory Protection:** Obtain professional assistance in selecting the appropriate and adequate respiratory protection. If necessary, use the appropriate MSHA/NIOSH approved respirator when engineering controls are not feasible.
- Protective Clothing:** Chemical protective clothing should not be required under normal circumstances when using this material.
- Hygiene Practices:** Never eat, drink, use tobacco products or apply cosmetics in areas where hazardous chemicals are used. Employees should wash their hands thoroughly prior to engaging in any of these activities.

**Section 9 – Physical and Chemical Properties**

- Appearance and Odor:** Grey, green granular solid
- Boiling Point:** N/A
- Vapor Pressure (mm Hg):** N/A
- Vapor Density (Air = 1):** N/A
- Specific Gravity (Water = 1):** 3.0
- Melting Point:** 2650 deg. F
- Evaporation Rate:** N/A
- Water Solubility:** Not soluble in water

**Section 10 – Stability and Reactivity**

**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 11 – Toxicological Information**

**Toxicity Data:\***

Ingredient	Toxicity (LD50)	Carcinogenicity		
		NTP	IARC	OSHA
SiO <sub>2</sub> (Silicates - Amorphous)	>10000 mg/kg	No	No	No
MgO (Magnesium Oxide)	Not Available	No	No	No
Fe <sub>2</sub> O <sub>3</sub> (Iron Oxide)	5500 mg/kg	No	No	No
CaO (Calcium Oxide)	7340 mg/kg	No	No	No
Ni (Nickel) and NiO (Nickel Oxide)	>9000 mg/kg	No	No	No
Cr <sub>2</sub> O <sub>3</sub> (Chromium Oxide)	>10000 mg.kg	No	No	No

**Target Organs:** May cause respiratory irritation upon exposure to high airborne concentrations. May cause eye irritation if material contacts eye.  
  
**Potential Acute Health Effects**  
**Eyes:** May cause irritation to eyes  
**Skin:** May cause irritation or abrasion  
**Inhalation:** May cause irritation upon exposure to high airborne concentrations  
**Ingestion:** May cause digestive irritation, but not expected to cause adverse systemic effects  
  
**Potential Chronic Health Effects**  
**Target Organs:** Not likely to cause chronic effects to any target organs or systems  
  
**Medical Conditions Potentially Aggravated by Overexposure:** None expected

\* See NIOSH for additional toxicity data.

**Section 12 – Ecological Information**

**Ecotoxicity:** No ecotoxicity effects known or anticipated  
**Environmental Fate:** N/A  
**Environmental Transport:** N/A  
**Environmental Degradation:** None



## Section 13 – Disposal Considerations

Refer to federal, state and local waste disposal rules and requirements for proper disposal method.

## Section 14 – Transport Information

### DOT Transportation Data (49 CFR 172.101):

This product, as produced and offered, is not listed as a Hazardous Material by the Department of Transportation in 49 CFR 172.

## Section 15 – Additional Regulatory Information

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 (EPCRA – 40 CFR 372):

Ni (Nickel) and NiO (Nickel Oxide)	7440-02-0	<0.1%
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**Note:** Refer to your federal, state and local environmental, safety and health regulatory agencies for specific additional regulatory requirements in your location.

## Section 16 – Other Information

**Prepared By:** Kerry T. Cooley, CIH, Beacon Northwest, LLC

**Revision Date:** June 10, 2016

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