

GREEN DIAMOND PRODUCTS

COMINCO AMERICAN INC.
ABRASIVE PRODUCTS

MATERIAL SAFETY
DATA SHEET

SECTION I - PRODUCT IDENTIFICATION		HMIS
Manufacturer's Name:	Cominco American Inc.	Health - O
Telephone:	(541) 874-3111	Flammability - O
Address:	PO Box 85, Riddle, OR 97469	Reactivity - O
Date Prepared:	July 17, 1998 (Supersedes July 27, 1995)	Protective Gear - K

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

*Regulated as for nuisance particulate (dust).

TYPICAL ANALYSIS:

SiO ₂ (respirable free SiO ₂ < .01%)	50.2%
MgO	31.4%
Fe ₂ O ₃	15.9%
Al ₂ O ₃	1.6%
CaO	0.7%
Ni + NiO	< .1%
Cr ₂ O ₃	.1%
Trace Elements & Compounds (total)	1.5%
TOTAL	99.8%

The silica in Green Diamond materials is precipitated silica in the form of silicates of Mg²⁺ and Fe³⁺;
MgSiO₃ (MgO SiO₂) and FeSiO₃ (FeO SiO₂)

SECTION 313 SUPPLIER NOTIFICATION

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):

CAS #	Chemical Name	Percent by Weight
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 (H ₂ O = 1):	3.0
Melting Point:	2,650 Deg. F
Evaporation Rate:	NA
Solubility in Water:	Not soluble in water
Appearance and Odor:	Green 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.

ADDITIONAL INFORMATION

If material is being used for abrasive air blasting, proper protective clothing, eye protection and respirators should be used in accordance with OSHA regulations.

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