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Grand Forks, B.C. V0H-1H1
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Gaia Green
PRODUCTS LTD

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product Identifier	**GAIA GREEN GLACIAL DUST (Ultra Fine)**
Product Use	Soil treatment
WHMIS Classification:	D2A
TDG Classification	Not subject to Transportation of Dangerous Goods Act

Manufacturer for:
Gaia Green Products Ltd.
9130 Granby Road
Grand Forks BC
V0H-1H1
Emergency Telephone Number
250 442 3745 (Gaia Green)

SECTION 2 - HAZARDOUS INGREDIENTS

Ingredient	**%**	**CAS Number**	**LD_{50}**	**LC_{50}**
May contain up to				
Crystalline silica (quartz)	55	14808-60-7	N/A	N/A

SECTION 3 - PHYSICAL DATA

Physical State	Solid		
Odour/Appearance	Brown to grey powder, no odour		
Vapour Pressure	N/A	Vapour Density	N/A
Evaporation Rate	N/A	Boiling Point	2230 °C
Freezing Point	1610 °C	pH	6-7
Specific Gravity	2.65	Coeff. Water/Oil Dist.	N/A

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability	Not flammable	Means of Extinction	N/A
Flashpoint	N/A	Upper/Lower Flam. Limit	N/A
Autoignition Temp.	N/A	Hazardous Combustion	None

Explosion Data	
Sensitivity to Impact	None
Sensitivity to Static Discharge	None

SECTION 5 - REACTIVITY DATA

Chemical Stability	Stable
Incompatibility with Other Substances	None

Reactivity, and under what conditions

Silica will dissolve in hydrofluoric acid to give silicon tetrafluoride, a corrosive gas.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry					
Skin Contact	No	Skin Absorption	No	Eye Contact	No
Inhalation	Yes	Ingestion	No		

Effects of Acute Exposure to Product

No potential acute toxic hazards known.

Effects of Chronic Exposure to Product

Excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis. The International Agency for Research on Cancer (IARC) has evaluated in Volume 42, Monographs on the Evaluation of the Carcinogenicity Risk of Chemicals to Humans; Silica and Some Silicates (1987), that there is "sufficient evidence for the carcinogenicity of crystalline silica to experimental animals" and "limited evidence with respect to humans."

Exposure Limits

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR 19100.1000 Table Z3 for Mineral Dusts, specifically "Silica: Crystalline: Quartz (respirable)".

Crystalline Quartz (Respirable)	$\frac{250}{\%\ SiO_2 + 5}$	Mppcf	$\frac{10}{\%\ SiO_2 + 2}$ mg/m^3
Quartz (Total Dust)			$\frac{30}{\%\ SiO_2 + 2}$ mg/m^3

ACGIH TLV: Crystalline Quartz

TLV - TWA = 0.1 mg/m^3 (respirable dust).

NIOSH has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air averaged over a work shift of up to 10 hours per day, 40 hours per week.

Irritancy of Product

Individuals with pulmonary and /or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure to dust.

Sensitization to Product	N/A		
Carcinogenicity	NTP	IARC Monographs	OSHA Regulated
See "Chronic Exposure"	No	Level 2A Grouping	No
Teratogenicity	None	Reproductive Toxicity	None
Mutagenicity	None	Synergistic Products	None

SECTION 7 - PREVENTIVE MEASURES

Personal Protective Equipment	
	Use conventional NIOSH approved or equivalent respiratory protection equipment based on considerations of airborne concentration and duration of exposure.
	For sandblasting use appropriate protective equipment and filtered air supply.
Gloves	Abrasion resistant gloves are essential for sandblasting, and desirable for other industrial situations.
Eye	Use appropriate eye protection to minimize contact with dust. Full protective hood is recommended for sandblasting.
Other	Wear appropriate clothing and footwear for the specific application.

Section 7, continued

Engineering Controls

Use adequate ventilation and dust collection. Do not permit dust to accumulate in work area.

Leak and Spill Procedure

If uncontaminated, collect for reuse or disposal. Use dustless procedures. If contaminated, use appropriate method and container for contaminant.

Waste Disposal

If uncontaminated, dispose as an inert, non-metallic mineral.
If contaminated, use appropriate method for contaminant in accordance with applicable regulation(s).

Handling Procedures and Equipment

Avoid creation of respirable dust if possible. Use adequate ventilation and dust collection.

Storage Requirements

Store in a dry place.

Special Shipping Information

N/A

SECTION 8 - FIRST AID MEASURES

Eyes	Flush with running water. Obtain medical attention if irritation persists.
Gross Inhalation	Remove to fresh air. Give oxygen with artificial respiration as needed. Obtain medical attention for treatment, observation and support as needed.

SECTION 9 - PREPARATION DATE OF MSDS

Prepared By	Gaia Green Products Ltd.
Phone Number	250-442-3745
Date	November 15, 2012

The information in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information given is based on technical data that we believe to be reliable at the time of issue of the MSDS. Because conditions of use are outside our control, it is the responsibility of the user to verify safety data for combinations with other materials, or for use in specific processes, and to verify waste disposal requirements.