



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product Identifier	<b>Plan "B" Organics Glacial Rock Dust</b>
Product Use	Agricultural mineral
WHMIS Classification:	D2A
TDG Classification	Not subject to Transportation of Dangerous Goods Act
Manufactured for:	
ANH Enterprises.	
975 SE Sandy Blvd	
Portland, OR	
97214	
Emergency Telephone Number	
360 751 4897	

### SECTION 2 - HAZARDOUS INGREDIENTS

<b>Ingredient</b>	<b>%</b>	<b>CAS Number</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
May contain up to Crystalline silica (quartz)	55	14808-60-7	N/A	N/A

### SECTION 3 - PHYSICAL DATA

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

### 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:	N/A
Unusual fire and explosion hazards: No acute hazard			
Explosion Data			
Sensitivity to Impact	None		
Sensitivity to Static Discharge	None		

## SECTION 5 – HEALTH HAZARD DATA

Threshold limit value:	Not established
Effects of over exposure:	Unknown, may irritate skin and eyes
Emergency first aid procedures:	
Skin:	Rinse with soap and water. Contact physician if irritation persists
Eyes:	Flush copiously with water. Contact physician if irritation persists
Precautions to be taken in handling and storage:	Store in a dry place.
Other precautions:	Proper precautions are advised to prevent infection of open wounds, inhalation of excessive amounts of dust, eye irritation, and ingestion

## SECTION 6 - REACTIVITY DATA

Chemical Stability:	Stable
Incompatibility with Other Substances:	None known
Hazardous polymerization:	Will not occur
Hazardous decomposition products:	None known
Conditions to avoid:	None

## SECTION 7 - TOXICOLOGICAL PROPERTIES

Route of Entry				
Skin Contact	No	Skin Absorption	No	Eye Contact
Inhalation	Yes	Ingestion	No	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)	% SiO <sub>2</sub> + 5 Mppcf	$\frac{250}{0}$	% SiO <sub>2</sub> + 2 mg/m <sup>3</sup>	$\frac{10}{0}$
Quartz (Total Dust)		$\frac{30}{0}$	% SiO <sub>2</sub> + 2 mg/m <sup>3</sup>	

ACGIH TLV: Crystalline Quartz  
TLV - TWA = 0.1 mg/m<sup>3</sup> (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

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## SECTION 8 – SPILL OR LEAK PROCEDURES

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Steps to be taken in case material is release or spilled:	Shovel up large spills for use or disposal. Sweep up small spills.
Waste disposal method:	In accordance with legal regulations.

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## SECTION 9 – SPECIAL PROTECTION INFORMATION

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Respiratory protection:	Standard respirator for dust
Ventilation recommended:	Local exhaust usual, mechanical (general) usual
Eye protection:	Safety goggles as needed
Protective gloves:	Ordinary work or rubber gloves as needed

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## SECTION 10 – SPECIAL PRECAUTIONS

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Precautions to be taken in handling and storage	Transport in clean dry area
Other precautions	Not for human consumption

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NOTE: N/A = Not Applicable

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