



MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA Hazard Communication Standard, 29 CFR 1910.1200

1. Chemical Product and Company Identification

Product Name:	Graph-Ex™ Soybean Inoculant/Seed Lubricant
Manufacturer:	Advanced Biological Marketing
Address:	PO Box 222, 375 Bonnewitz Ave. Van Wert, OH 45891
Information Number:	419-232-2461
Company Product Code:	Item #3049

2. Composition/Information on Ingredients

Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits	%
Graphite, Natural (as respirable dust)	2.5 mg/m ³	2.0 mg/m ³	None	Prop.
Silica, Crystalline Quartz (as respirable dust)	0.1 mg/m ³	0.025 mg/m ³	None	NID
Powdered Cellulose Rhizobia Bacteria	15 mg/m ³	10 mg/m ³	None	Prop.

Notes:

Tests performed on natural graphite have shown respirable quartz dust levels ranging from 0% to 5%.

3. Hazards Identification

Route(s) of Entry:

Inhalation:	Skin:	Ingestion:
Yes	No	Yes

Health Hazards (acute and chronic): Inhalation of dust may result in irritation of mucous membranes. Long-term inhalation may result in silicosis or pneumoconiosis.

Carcinogenicity:	NTP	IARC Monographs	OSHA Regulated
	No	Yes	No

Notes:

Silica as quartz; animal sufficient evidence, human sufficient evidence.

Signs and Symptoms of Exposure: Not known other than that mentioned in the health hazards. **Medical Conditions Generally Aggravated by Exposure:** No medical conditions are known to be aggravated by this product.

4. First Aid Measures

Eyes:	Flush thoroughly with water for 15 minutes. Get medical attention.
Skin:	Wash exposed skin with soap and water. If irritation persists get medical attention. Launder severely contaminated clothing before reuse.
Ingestion:	Do not induce vomiting. Get medical attention.
Inhalation:	Remove to fresh air area. If breathing becomes difficult, get medical attention.

5. Fire Fighting Measures

Flash Point: (method)	N/A	Flammable Limits:	LEL:	UEL:
			NIA	N/A

Extinguishing Media: Water, carbon dioxide, foam or dry chemical.

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus to fight a fire involving this material.

Unusual Fire and Explosion Hazards: None

NFPA Hazard Rating:



Health	Flammability	Reactivity
1	0	0

6. Accidental Release Measures

Spill/Leak Procedures: Carefully sweep up material and wash floor with soap and water. Containerize for solid waste disposal.

Dispose of in accordance with local, state and federal regulations.

7. Handling and Storage

Handling and Storage Precautions: Keep containers tightly closed when not in use. Graphite causes slippery conditions. Graphite, being conductive, can cause short circuits and other electrical malfunctions.

Work/Hygienic Practices: Wash exposed skin with soap and water after handling this product.

8. Exposure Controls/Personal Protection

Respiratory Protection (specify type): Use NIOSH/MSHA approved mask for chemical products if ACGIH, OSHA and/or TWA limits will be exceeded.

Local Exhaust	Mechanical (general)	Special	Other
Not Required	Recommended	None	Non

9. Physical/Chemical Characteristics

Physical State: Solid	Boiling Point: N/A
Appearance: Gray	Melting Point: N/A
Odor: None	Vapor Pressure (mm Hg): N/A
Specific Gravity (H ₂ O=1): 2.25	Vapor Density (air=1): N/A
Water Solubility: Insoluble	Evaporation Rate: N/A (Butyl Acetate = 1)

10. Stability and Reactivity

Stability: Material is stable.

Incompatibility (materials to avoid): Strong oxidizing agents, acids and alkalis.

Hazardous Decomposition Products: On burning, may release carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

11. Transportation Information

(VIA Truck)	(VIA Ocean)	(VIA Air)
Not regulated	Not Regulated	Not regulated

12. Other Information

Disclaimer: The information contained herein is based on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

California Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer.

Key:

Unk. = Unknown

NIA = Not applicable

Nav = Not available

N/D = Not determined

N/E = Not established

Prop. = Proprietary

Prepared: 03/31/08

Revised: N/A