



GREAT LAKES INDUSTRIES, INC

MATERIAL SAFETY DATA SHEET

PRODUCT : Garnet Grain and Powder

CHEMICAL FORMULA : $(\text{Fe, Mg})_3\text{Al}_2(\text{SO}_4)_3$

INGREDIENTS INFORMATION :	Element	Content	CAS Number
	Almandite	94~99.6%	1302-62-1
	SiO ₂ (Crystalline)	< 1.0 %	7440-21-3

PHYSICAL/CHEMICAL CHARACTERISTICS:

Specific Gravity:	3.9 ~ 4.1
Melting Point:	1315°C
Solubility in Water:	Insoluble
Solubility in Other Compounds:	Not relevant
Appearance and Odor:	Pink to Purple Powder – No odor

FIRE AND EXPLOSION DATA:

Flash Point (Method Used):	Non Flammable
Flammable Limits:	Non Flammable
Extinguishing Media:	This material is non-combustible. Use extinguishing media that is appropriate for the surrounding fire.
Special Fire Procedures:	None
Unusual Fire and Explosion Hazards:	None

REACTIVITY DATA:

Stability:	Stable
Incompatibility:	Not Applicable
Hazardous Decomposition:	Not Applicable
Hazardous Polymerization:	Will not occur
Conditions To Avoid:	None



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HEALTH HAZARD DATA:

Primary Route(s) of Entry:	Inhalation
Health Hazards:	Acute – Upper respiratory irritation Chronic – May lead to extensive fibrosis and progressive lung disease.
Carcinogenicity:	No
Signs and Symptoms of Exposure:	Respiratory distress, cough or shortness of breath.
Emergency and First Aid Procedures:	Remove from area of dust exposure. If the powder gets in eyes, flush immediately with large quantities of clean cool water. If ingested, wash out mouth with water. Contact medical assistance if necessary.

PACKAGING INFORMATION:

Outer Packaging:
Inner Packaging:

PRECAUTIONS FOR SAFE HANDLING AND USE:

Steps to be taken in case material is released or spilled	Sweep, shovel or vacuum material.
Waste Disposal Method:	May be land filled in accordance with local, state and Federal regulations.
Precautions to be taken in handling and storing:	Avoid open handling contributing to airborne suspension. Provide ventilation or dust collection.

CONTROL MEASURES:

Ventilation:	Local exhaust recommended.
Protection Gloves:	Recommended to use.
Eye Protection:	Recommended to use.
Other Protective Clothing/Equipment:	None
Work/Hygienic Practices:	Minimize generation of dust.

- The information published in this Material Safety Data Sheet has been compiled from our experience, and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the user's application and for adopting necessary safety precautions.