

Material Safety Data Sheet

Garnet

1. Company Identification

SYNTEX 2000, Inc.
 11966 Rivera Road
 Santa Fe Springs, CA 90670
 Tel: (562) 693-0990 Fax: (562) 696-6799

2. Hazardous Ingredients/Identity Information

Syntex Garnet is a natural mixture of Almandine garnet – $Fe_3Al_2(SiO_2)_3$ with Mg and Mn in partial substitution for Fe in the formula, and other minerals. The following substances are present:

SUBSTANCE	WT. %	LIMIT IN USE *	
Nuisance dust	na	15 mg/cu.m.	<i>*If these levels are exceeded, respiratory protection must be applied.</i>
Respirable dust	na	5 mg/cu.m.	
Crystalline silica	<0.5%	0.10 mg/cu.m.	

3. Physical and Chemical Characteristics

Melting Point Circa 1320°	Specific gravity (H ₂ O = 1.0) 4.0 – 4.5
Solubility in water Insoluble	Appearance and odor reddish brown; no odor

4. Fire & Explosion Hazard Data

Flash Point (method used)	Flammable limits	LEL	UEL
Material is a non-flammable solid.	Not applicable	na	na

Extinguishing media

Use extinguishing media appropriate for the surrounding fire.

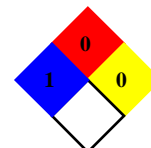
Special fire fighting procedures

As appropriate to surrounding, fire fighters should be protected from nuisance dust.

Unusual fire and explosion hazards

None

NFPA Rating



5. Reactivity Data

Stability	Unstable ()	Conditions to avoid
INERT	Stable (x)	Almandine garnet is an inert, stable solid needing no special handling in normal use.
Incompatibility (materials to avoid)		
None Known		
Hazardous decomposition or byproducts		
None known		
Hazardous	May Occur ()	Conditions to avoid
Polymerization	Will not occur ()	None Known

6. Health Hazard Data

Route(s) of entry	Inhalation? Possible	Skin? None	Ingestion? None
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Health Hazards (acute & chronic)

None known. Use care to limit possible exposure to nuisance dust during blast cleaning.

Carcinogenicity

Crystalline silica (quartz) contains less than 0.5%

Signs & Symptoms of exposure

Exposure to nuisance dust may cause eye, throat or lung irritation, coughing, or shortness of breath.

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Continuation of Section 6 - Health Hazard Data...

Medical conditions generally aggravated by exposure

Chronic bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.

Emergency and First Aid Procedures

Eye Contact: Wash eyes with water to flush out dust particles.

Skin Contact: Wash affected area with soap and water.

7. Precautions for Safe Handling & Use

Steps to be taken in case material is released or spilled

NO SPECIAL PRECAUTIONS NECESSARY. Sweep or vacuum material for disposal. Prevent generation of dust during clean-up.

Waste Disposal Methods

Follow local, state and federal guidelines for disposal of inert solid waste.

MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.

Precautions to be taken in handling & storing

None – Use good housekeeping practices to reduce dust; use approved hand, eye, and respiratory protection when handling material.

Other Precautions

Use material ONLY for the purposes intended, and incorporate methods of dust control to maintain airborne dust within federal or local TLV limits.

8. Control Measures

Respiratory protection (specify type)

NIOSH/MSHA approved filters and air supplied hoods for blasters.

Ventilation	Local Exhaust	Special
YES	Use when blast cleaning	NONE
	Mechanical (general)	Other
	Meet dust TLV	NONE

Protection gloves

Leather or equivalent – in use

Eye Protection

Safety Glasses with side shields

Other Protective Clothing or Equipment

Normal safety protection is adopted.

Work/Hygienic Practices

Maintain a clean & safe work environment and monitor work practices.

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