### **MATERIAL GARNET ABRASIVE**

## Material Safety Data sheet



#### HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Product/Chemical Name: Garnet Abrasive Grains and Powders

Chemical Formula: Fe3Al2(SiO2)

Other Designations: Almandite Garnet - Garnet

General Use: Industrial Abrasives

Distributor/Supplier: Norspray AS, Maskinveien 10, N-4033 STAVANGER. Tel: +47 5122 0700

Garnet is a natural mixture of Almandine garnet - with Mg and Mn in partial substitution for

Fe in the formula and other minerals. The following substances are present.

Substances	Wt %	Limit in use	Remarks
Crystalline Silica	<0.5%	0.10 Mg/cu.m	If these levels are exceeded
Respirable dust	NA	5 Mg/cu.m	respiratory must be applied.
Nuisance dust	NA	15 Mg/cu.m	

PHYSICAL AND CHEMICAL CHARACTERISTICS		
Melting Point	1320 <sup>O</sup> C	
Specific Gravity (H2O = 1.0)	4.0 to 4.5	
Solubility in Water	Non-soluble	
Appearance and Odour	Reddish brown, no odour	
Physical State	Solid	
Viscosity	Not Applicable	
Boiling Point	Not Applicable	

FIRE AND EXPLOSION HAZARD DATA			
Flammability	Non - Flammable Solid	_	
Flash Point (Method used)	Not relevant		
LEL - Not Applicable	NA	$\wedge \wedge$	
UEL - Not Applicable	NA	$H \left( 1 \times 0 \right) R$	
Extinguishing Media	Use appropriate extinguishing media for the surrounding fire	<u> </u>	
Unusual Fire or Explotion Hazards	None	NFPA	

STABILITY & REACTIVITY DATA		
Stability	Stable	
Polymerization	Can not occur	
Incompatibility	None known	
Hazardous Decomposition or By Products	None known	

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HEALTH HAZARD DATA				
Route(s) of Entry	Inhalation?	Skin?	Ingestion?	
	Possible	None	None	
Health Hazards (Acute and 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 and Symptoms of Exposure	Exposure to nuisance dust may cause eye, throat or lung irritation, coughing or shortness of breath.			
Medical Conditions Generally Aggravated by Long-Term 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. Ingestion: Obtain first aid or medical assistance, if needed. Inhalation: Remove to fresh air, if breathing is difficult, administer oxygen, obtain first aid, if needed			

PRECAUTIONS FOR SAFE HANDLING AND USE		
Steps to be Taken in Case Material is Released or Spilled	No special precautions are necessary. Sweep or Vacuum material for disposal or recovery.	
Waste disposal Method	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 and Storing	NONE - Use good house keeping practices to reduce dust. When handling use approved hand and eye protection as desired by user. If needed use approved Respiratory protection.	
Other precautions	Use material only for the purpose intended, and incorporate methods of dust control to maintain airborne dust within federal or local TLV limits.	

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 gloves, leather cabs and paper mask.		
Eye Protection	Recommend safety glasses with side shields approved by Federal.		
Other Protective Clothing or Equipment	Normal Safety protection is adopted		
Work/Hygienic Practices	Maintain a clean and safe work environment and monitor work practices.		

#### **SPECIAL COMMENTS & PRECAUTIONS:**

The above said information is believed to be accurate but is not warranted with respect to the accuracy of the information or recommendations. The users are advised to confirm in advance of the need that the information is current and applicable to their circumstances and usage.

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