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MSDS - MARCO GARNET®

Identity

Marco Garnet

I. Company Identification

Supplier: Marco
Address: 3425 East Locust Street
Davenport, Iowa 52803
Emergency Phone Number: 800.252.7848
Product Information: 800.252.7848

II. Chemical Identity & Ingredients

Marco's washed Indian Garnet is a natural mixture of **ALMANDINE GARNET**, having a chemical composition of $Fe_3Al_2(SiO_4)_3$ with Mn and Mg in partial substitution for Fe in the formula, and other minerals. CAS No.: 1302-62-1 (Almandine).

Hazardous Ingredients: The following substances are present and regulated by OSHA & ACGIH limits

Substance	WT. %	OSHA/ACGIH Limit in Use*
Nuisance Dust	N/A	15mg/m ³
Respirable Dust	N/A	5 mg/m ³
Crystalline Silica	<1.0%	0.10 mg/m ³

*If these levels are exceeded, adequate respiratory protection must be employed.

III. Physical & Chemical Characteristics

Melting Point: 1315°C
Solubility in Water: Insoluble
Specific Gravity (H₂O = 1.0): 4.0-4.1
Appearance & Odor: Deep red, reddish brown; no odor

IV. Fire & Explosion Hazard Data

Flash Point (method used): Material is a non-flammable solid
Flammable Limits: not applicable
LEL: N/A
UEL: N/A
Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.
Special Fire Fighting Procedures: As appropriate to surrounding fire. Fire fighters should be protected from nuisance dust.
Unusual Fire and Explosion Hazards: None.

V. Reactivity Data

Stability: () Unstable (x) Stable INERT
Hazardous Decomposition or Byproducts: None known.
Hazardous Polymerization: Will not occur.
Incompatibility (material to avoid): None known.
Conditions to Avoid: None known. Almandine Garnet is an inert, stable solid needing no special handling in normal use.

VI. Health Hazard Data

Route(s) of Entry Possible: None
Health Hazards (acute and chronic due to overexposure):
Inhalation: Dust may cause irritation of nasal and respiratory tract or coughing.
Eyes: Dust may cause irritation.
Ingestion: No known effect, however ingestion not recommended

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VI. Health Hazard Data (continued)

Carcinogenicity Crystalline Silica (quartz) Contains less than 0.5%	NTP	IARC Monographs No. 42 N/A	OSHA Regulations 0.1 mg/m ³
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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.
- Inhalation: Remove from source of dust and obtain other medical assistance.
- Ingestion: Obtain medical assistance, if needed

VII. Precautions for Safe Handling & Use

Steps to be Taken in Case Material is Released or Spilled: No special precautions are 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 and Storage: 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.

VIII. Control Measures

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

Ventilation: Yes
Mechanical (general): Meet dust TLV
Other: None
Local Exhaust: Use when blast cleaning
Special: None

Protection Gloves: Leather, or equivalent - in use
Eye Protection: Safety glasses with side shields

Other Protective Clothing or Equipment: Hearing protection when working near blast cleaning operations.

Work/Hygienic Practices: Maintain a clean and safe work environment and monitor work practices.

⚠ WARNING Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during blasting operations, post-blast cleaning operations, and/or servicing equipment within the blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being blasted can remain suspended in the air for long periods of time after blasting has ceased. A NIOSH-approved, well-maintained, respirator designed for the specific operation being performed must be used by anyone blasting, handling or using the abrasive, and anyone in the area of the dust. Failure to comply with the above warning could result in death or serious injury.

⚠ WARNING You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area. Failure to comply with the above warning could result in death or serious injury.

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