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MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: Marco Hard Rock Garnet

MSDS NUMBER: 708M001

MSDS DATE: October 1, 2010

EMERGENCY PHONE #'s: 800-252-7848

PRODUCT CODE: 70GAR80

70GAR30X60

70GAR20X40

70GAR12X20

Marco
3425 East Locust Street
Davenport, IA 52803
PH: 800-252-7848 FX: 800-735-6849

HEALTH	1	Slightly Hazardous
FIRE	0	Will Not Burn
REACTIVITY	0	Stable
SPECIFIC		-

1. IDENTIFICATION

Chemical Name: Garnet

Chemical Family: N/A

CAS #: 1302-62-1

CAS Name: Almandine

Synonyms / Common Name: Garnet Abrasive Grains and Powder

DOT Information: See Page 3

Chemical Formula: (Fe, Mg)₃Al₂(SiO₄)₃

Molecular Weight: 403 gm

2. PHYSICAL DATA

Appearance: Grains or Powder
Color: Red, Pink, White or Grey
State: Solid
Odor Characteristics: Odorless
pH: N/A
Viscosity: N/A
Specific Gravity (Water = 1): 3.9 - 4.1
Vapor Density (Air = 1): N/A
Vapor Pressure: N/A

Melting Point: 1250 to 1315 °C
Boiling Point: N/A
Flash Point: N/A
Freezing Point: N/A
Percent Volatility: N/A
Evaporation Rate (BAC = 1): N/A
Solubility in Water: Not Soluble
Solubility in Oil: Not Soluble
Solubility in Acetone: Not Soluble

3. INGREDIENTS

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Almandite and Pyrope Garnet	1302-62-1	Almandine	10 Mg/m3	95.0 - 99.5
Nuisance Dust	N/A	N/A	15 Mg/m3	> 1.0
Respirable Dust	N/A	N/A	5 Mg/m3	> 1.0
Crystalline Silica	N/A	N/A	0.10 Mg/m3	> 0.2
Traces of Hornblende, Magnetite & Feldspar	N/A	N/A	10 Mg/m3	0.5 - 5

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Extinguishing Media: N/A

Flammable Limits
fin Air % by Volume: Lower N/A
Upper

Special Fire Fighting Procedures: No Special Procedures required. Use appropriate nuisance dust protection while extinguishing surrounding fire.

Unusual Fire & Explosion Hazards: N/A



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5. HEALTH HAZARD DATA

Threshold Limit Value: See page 1, Section 2

Effects of Overexposure:

Inhalation: May cause irritation of nasal and respiratory tract.

Skin Contact: May cause irritation

Eye Contact: May cause abrasions

Ingestion: No known effect.

Delayed Effects: None known.

Medical Conditions Aggravated by Exposure: Chronic respiratory disease may be aggravated by exposure to nuisance dust.

6. FIRST AID MEASURES

Inhalation: Remove to fresh air; administer oxygen if breathing is difficult.

Skin Contact: Wash affected area with soap and water.

Eye Contact: Wash eyes with water to flush out dust particles; obtain medical Assistance if needed.

Ingestion: Obtain first aid or medical assistance, if needed.

NOTES TO PHYSICIAN: N/A

7. REACTIVITY DATA

Stability: Stable

Incompatibility: Strong acids or oxidizing agents
(materials to avoid)

Hazardous Combustion or Decomposition Products: N/A

Hazardous Polymerization: N/A

Conditions to Avoid: N/A

8. SPILL OR LEAK PROCEDURES

Actions to Take for Leaks & Spills: Sweep or vacuum material for disposal or recovery. Material may be wetted with water to reduce dust and collected for reprocessing or disposal.

Waste Disposal Method: Follow local, state and federal guidelines for disposal of inert solid waste.
MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.



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9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: If the respirable particulate exposure limit is exceeded, wear a NIOSH approved dust mask.

Eye Protection: When mechanically working this product, safety glasses with side shields or coverall goggles are recommended for airborne dust exposures in excess of the applicable limits.

Skin Protection: Wear protective gloves and clothing to prevent skin contact.

Other Clothing: N/A

Other Equipment: N/A

Engineering Controls: A system of local and/orgeneral exhaust is recommended to keep exposures below the Airborne Exposure Limits. Please refer to the most recent edition of "Industrial Ventilation, A Manual of Recommended Practices", for details.

10. HANDLING AND STORAGE

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

Other Precautions: Avoid conditions of extreme humidity.

11. REGULATORY INFORMATION

Workplace Classification: Abrasive particle or dust.

12. TOXICOLOGICAL INFORMATION

Acute Data: N/A

**Reproductive /
Teratology Data** N/A

13. ECOLOGICAL INFORMATION

Fate in the Environment: Data not available - This material is a naturally occurring mineral with no known ecotoxicity. It is insoluble in water and unlikely to contaminate waterways or food chains.

14. DISPOSAL CONDITIONS

Procedures: Follow local, state and federal guidelines for disposal of inert solid waste.
MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.

15. TRANSPORTATION INFORMATION

DOT Classification: PRODUCT LABEL: GARNET ABRASIVE GRAINS AND POWDERS
UN NUMBER: Non-Regulated material
PACKAGE CLASS: 50 D.O.T - HAZARD CLASS: NA D.O.T.

Warning Labels: N/A



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16. OTHER INFORMATION

This MSDS has been prepared for Marco by Richard McLaughlin, Technical Services Specialist. The information contained is in compliance with the criteria set forth in 29 CFR 1910.1200, Appendix B.