



Material: EMERY ABRASIVE FOR WATER JET CUTTING

MATERIAL SAFETY DATA SHEET

Section I. Identification of the Substance and of the Company

Product Name	Emery Abrasive for Water Jet Cutting
General Use:	Industrial; not limited to abrasives, water filtration.
Chemical Formula:	Fe ₃ Al ₂ (SiO ₂) with Mg & Mn in partial substitution for Fe in the formula

Distributor:

GritSablare

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Section II. Physical and Chemical Properties

Appearance:	Reddish brown to pink grains
Particle shape:	Sub-round to sub-angular
Bulk density:	2.24 – 2.4 g/ml
Real density:	3.9 – 4.1 g/cm ³
Hardness:	7.5 – 8 Mohs
Melting point:	1250 °C

Chemical Composition:	STANDARD	TYPICAL
Al₂O₃:	20 – 28%	22.29%
SiO₂:	35 – 40%	36.5%
FeO:	22 – 29%	28.3%
MgO:	2 – 8%	6.5%
CaO:	1 – 4%	1.9%

Section III. Hazardous Ingredients / Identity Information

- This material is a natural mixture of almandine garnet - $\text{Fe}_3\text{Al}_2(\text{SiO}_2)$ with Mg and Mn in partial substitution for Fe in the formula, and other trace minerals. The following substances are present and regulated by OSHA (The Occupational Safety and Health Administration is an agency of the USA Department of Labour).

Nuisance Dust	▪ N/A
Respirable Dust	▪ N/A
Crystalline Silica	▪ <0.5%

Section IV. Fire and Explosion Hazard

Flash Point:	▪ Material is a non-flammable solid
Flash Point Method:	▪ Not applicable
Flammable Limits:	▪ Not applicable
LEL:	▪ Not applicable
UEL:	▪ Not applicable
Flammability Classification:	▪ Not applicable
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

Section V. Stability and Reactivity

Stability:	▪ Stable
Polymerization:	▪ Will not occur
Chemical Incompatibilities:	▪ None known
Hazardous Decomposition Products:	▪ None known

Section VI. Health Hazard Information

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%
Inhalation:	▪ Dust may cause irritation of the nasal and respiratory tract.
Skin:	▪ May cause abrasions.
Ingestion:	▪ None known; however, ingestion is not recommended.
Medical Conditions Generally Aggravated by Exposure:	▪ Chronic bronchitis, emphysema and other lung diseases may be aggravated by exposure to nuisance dust.

Section VII. Emergency First Aid Procedures

Inhalation:	▪ Remove to fresh air; administer oxygen if breathing is difficult.
Eye Contact:	▪ Wash eyes with water to flush out dust particles; obtain medical assistance if needed.
Skin Contact:	▪ Wash affected area with soap and water.
Ingestion:	▪ Obtain first aid or medical assistance, if needed.

Section VIII. Precautions for Safe

Spills:	▪ Sweep or vacuum material for disposal or recovery.
Disposal:	▪ Follow local, state and federal guidelines for disposal of inert solid waste. MATERIAL CONTAMINATED IN USE MAY REQUIRE SPECIAL HANDLING.

Section IX. Handling and Storage

Handling / Storage Precautions:	▪ None - use good housekeeping practices to reduce dust; use approved hand, eye and respiratory protection when handling.
Other Precautions:	▪ Use materials only for the purposes intended, and incorporate methods of dust Control to maintain airborne dust within federal or local TLV limits.
Normal Storage:	▪ General storage, ambient air temperature and pressure. Do not store near a heat source. Do not store near water or in an area where the material can get wet.

Section X. Toxicological Information

Not available.

Section XI. Ecological Information

Not available.

Section XII. Control Measures

Ventilation:	▪ Provide sufficient local exhaust or mechanical (general) ventilation to maintain dust exposure limit below threshold limit value (TLV).
Respiratory Protection:	▪ There are approved filters and air supplied hoods / helmets for blasters.
Eye Protection:	▪ Safety glasses with side shields, goggles or face shield.
Protective Gloves:	▪ Leather or equivalent - in use
Other Protective Clothing or Equipment:	▪ Normal safety protection is adopted.
Work / Hygienic Practices:	▪ Maintain a clean and safe work environment and monitor work Practices.

Section XIII. Transport Information

- This goods has not been listed in the International Maritime Dangerous Goods, handling, storage and transport according to common goods.
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