



Material Safety Data Sheet

Product Name:	Abrasive Grains, Garnet
Product Range:	Grade A -12/24, Grade B -20/40, Grade C -30/60, Grade D -80
Application:	Water Filtration Blasting Water Jet cutting
Manufacture's Name:	Salgo Minerals
Office Address	540, SKP Building Beach Road, Quilon Kerala-691001, India
Telephone	+91 8078135948

SECTION-II-CHEMICAL COMPOSITION / MINERALS

Super garnet is a natural mixture of Almandine garnet and it was collected from inland and sea shore area. Almandine garnet purity and other mixed trace minerals.

Mineral composition	CAS. NO.	Proportion By weight
Almandine Garnet (Fe ₂ Al ₂ (SiO ₄) ₃)	1302-62-1	>98.00 %
Ilmenite (FeTiO ₃)	103170-28-1	<01.10 %
Shell (CaCO ₃)	471-31-1	<00.20 %
Quartz (SiO ₂)	149040-68-2	<00.50 %
Zircon (ZrSiO ₄)	14808-60-7	<00.20 %

Section-III-HAZARDS INFORMATION

Non-Hazardous and Non-Dangerous cargo according to criterion NOHSC : 1008(2004). Because it is natural minerals.

Section-IV-HEALTH HAZARDS & FIRST AID PROCEDURES

Swallowed: Non toxic. There are no known health hazard effects resulting from accidental ingestion as that many occur while the workers normal handling. Absorb the larger amounts may cause irritation due to abrasiveness. First aid is unlikely to be required, but if necessary wash mouth with water ensuring the mouthwash is not swallowed. Contact medical consultant, if any problems develop.

Eye: Materials and dust contact can cause eye irritation due to abrasiveness. Normal force with lot of clean water for at least 10 minutes or until the abrasive is removed. Also can contact medical consultant, if any problems develop.

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Skin: There are no known health effects from skin contact that may happen during normal handling. Contact medical consultant, if any problem develop. Also while blasting the material contact with skin under pressure will damage skin. Gently remove the contamination clothing to avoid dust, then wash the skin. If the irritation is resists, contact medical advice.

Inhaled: Normally regarded as general nuisance dust, but can be irritating if inhaled in high concentration may cause lung irritation. Shift to fresh air and blow nose to remove particulates from nasal passages. Contact medical consultant, if any problems found.

SECTION-V-STABILITY & REACTIVITY DATA

Stability	Stable
Polymerization	Cannot occur
Incompatibility	None
Hazardous Reactions	None
Decomposition	Not applicable
Flammability	Non-flammable
Flash Point	Not applicable
General Hazard	Non-flammable and does not support burning
LEL	Not applicable
UEL	Not applicable
Extinguishing Media	Use appropriate extinguishing media for the surrounding fire

I) PHYSICAL CHARACTERISTICS:-

Specific gravity	4.10
Bulk density	2.4 ft ³
Solubility in water	Insoluble
Appearances & Odor	Reddish & No odor
Physical state	Solid
Hardness (Moh)	7.30
Chloride	19.00 ppm
T.D.S	160 ppm
Conductivity	15 mS/m
Moisture	0.10

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II) CHEMICAL COMPOSITION:-

SiO ₂	36.05 %
Fe ₂ O ₃	38.10 %
Al ₂ O ₃	22.08 %
MgO	01.00 %
CaO	00.60 %
TiO ₂	00.12 %
K ₂ O	00.04 %
MnO	00.07 %
L.O.1	01.09 %
Na ₂ O	00.02 %

If these levels are exceed respiratory protection must be applied

Personal Protection: Safety glasses, Gloves and nose mask. Maintain a clean and safe work place and monitor effectiveness.

Engineering controls: Dust collector and ventilation requirements will depend on handling methods and the amount in use, but should be sufficient maintain dust levels exposure limit. Points of dust generation such as conveyor and hopper discharges should be equipped with an effective extraction system.

SECTION-VI-HANDLING AND STORAGE

Adopt good house keeping practices to reduce dust. Use approved hand, eye and respiratory protection devices while the material handling. No special safety measures required. Storage place should be ventilated and dust generation minimized when handling.

SECTION-VII-CONTROL MEASURES

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

NIOSH / MSHA: Approved filters and air supplied goods for blasters

Protection Gloves: Leather gloves, caps and paper mask

Eye Protection: Safety glasses with side shields approved by central

Other Protective clothing or Equipment: Normal safety protection is adopted

Work / Hygienic Practices: Keep a clean and safe work place and monitor work practices.

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SECTION-VIII-TRANSPORT

No special precautions. It is suggested to keep bags closed and covered using tarpaulin or sheet at the time of transporting to avoid dust generation.

SECTION-IX-DISPOSAL PROCEDURES

As per the local, state and central rules for the disposal of inert solid waste, material contaminated in use may require special handling and disposal.

SECTION-X-REGULATORY INFORMATION

This product is natural and dry mineral and the material collected from inland and sea shore. It is non-hazardous and non-dangerous cargo and does not require any special precautions.

SECTION-XI-ENVIRONMENTAL INFORMATION

This material is a natural mineral with no known ecotoxicity. It is insoluble in water, because it is very heavy material and it should not contaminate waterways and food materials, also does not dangerous to animals and plants.

SECTION-XII-TOXIC INFORMATION

This product is non-toxic with no known sensitive health effects relating to human exposure.

SECTION-XIII-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. As per the work safety rule, every user should reconsider the above information while product using.

Abbreviations:

Mg/m ³	-Milligram per cubic meter
NOHSC	-National Occupational Health & Safety
Commission TLV	-Threshold Limit Value
mS/m	-milli Siemens per meter
ppm	-Parts per million
g/cm ³	-Gram per cubic centimeter

End of MSD

Garnet being a natural product, its analysis is expected to very periodically and between deposits.

