



AKJ MINCHEM PVT LTD

C/O BALAJI MINERALS, NEAR MEWAR WEIGH BRIDGE, N.H.8 SUKHER,
UDAIPUR (RAJ.) 313001. WEBSITE:-WWW.AKJMINCHEM.CO.IN
EMAIL : - AKJMINCHEM@GMAIL.COM/INFO@AKJMINCHEM.COM

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifiers

Product name : Abrasive Sand/Emery Sand/Abrasive
Garnet/Almandine
Product Number : AMPL- Garnet
Brand : AKJ
CAS-No. : 14808-60-7

Synonyms/Common Names: Abrasive Sand/Emery Grains/Garnet/Sand

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet Company

AKJ Minchem Private Limited
C/O SHREE BALAJI MARBLES & MINERALS
Near Mewar way Bridge,NH-8 Sukher
Udaipur Rajasthan 313001 INDIA
Telephone: +91 9772789555 EMAIL :- www.akjminchem.com

1.4 Emergency telephone number

Emergency Phone #: +91 9509806461

2. HAZARDS IDENTIFICATION

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



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Garnet is a natural mixture of Almandine garnet and it was collected from Inland, rivers and sea shore area. Almandine garnet purity and other mixed trace minerals.

Minerals /Chemical composition	CAS. NO.	Proportion By weight
Almandine Garnet (Fe ₃ Al ₂ (SiO ₄) ₃)	1302-62-1	> 98.00 %
Ilmenite (FeTiO ₃)	103170-28-1	< 01.50 %
Shell (CaCO ₃)	471-31-1	< 00.20 %
Quartz (SiO ₂)	149040-68-2	< 00.50 %
Zircon (ZrSiO ₄)	14808-60-7	< 00.20 %

4. FIRST AID MEASURES

Swallowed: Non toxic. There are no known health hazard effects resulting from accidental ingestion as that may 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.

Skin: There are no known health effects from skin contact that may happen during normal handling. Contact medical consultant,if any problems 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 it 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..



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5. FIRE AND EXPLOSION HAZARD DATA

- Flammability - Non-flammable solid
- 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.

6. STABILITY & REACTIVITY DATA

- Stability - Stable
- Polymerization - Cannot occur
- Incompatibility - None Known
- Hazardous Reactions - None Known
- Decomposition - Not applicable

7. 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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify type)

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

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

Protection Gloves: Leather gloves, cabs 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.

PERSONAL PROTECTION

Crystalline silica - 0.10 mg/m³

Repairable dust - 5 mg/m³

Nuisance dust - 15 mg/m³

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.



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical Characteristics: -

Melting point	-	1320 °C
Specific gravity	-	4.0 to 4.5
Bulk density	-	2.4 g/cm ³
Solubility in water	-	Insoluble
Acid solubility	-	< 0.5 %
Appearances & Odour	-	Pink to red & No odor
Physical state	-	Solid
Viscosity	-	Not Applicable
Boiling point	-	Not Applicable
Vapour Pressure	-	Not Applicable
PH - Neutral Hardness	-	> 7 Moh scale
Free metal	-	< 0.01 %
Water soluble Chloride	-	< 25 ppm
Conductivity	-	< 15 mS/m
Moisture	-	< 0.20 % (Dry solid)
Grade Shape	-	Sub angular
Grain Size	-	90 micron to 1700 micron

b) Chemical Composition:-

SiO ₂	-	35.00 to 40.00%
Fe ₂ O ₃	-	33.00 to 35.00 %
Al ₂ O ₃	-	21.00 to 25.00 %



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MgO	- 01.30 to 04.50 %
CaO	- 01.50 %
TiO2	- 01.00 %
Cr2O3	- 00.05 %
MnO	- 00.50 %
P2O5	- 00.04 %

10. 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 it does not dangerous to animals and plants.

11. TOXICOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

No special precautions, It is suggested to keep bags closed and covered using tarpaulin or any sheet while the transporting to avoid dust generation.

15. 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.



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16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. AKJ MINCHEM PVT LTD and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. And/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

As per the work safety rule, each and every user should reconsider the above information while product using.

Abbreviations :-

Mg/m ³	- Milligram per cubic metre
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

For,

AKJ MINCHEM PVT LTD

DIRECTOR

(Authorized Signatory)