

**ABRASIVOS S.A.****LIMA - PERU**

DIRECCION POSTAL: APARTADO (P. O. BOX) 4316
TELEFONO: 22-7944 - 22-5482 CABLE: «ABRASIVOS»
LIMA 1 - PERU

#243480, 243508, 243519, 243520, 243530, 243541, 423205
#243424, 243373, 243384, 243395, 243468, 386108, 386119

MATERIAL SAFETY DATA SHEET**SECTION I: Name and Product**

Manufacturer's Name	: ABRASIVOS S.A.
Address	: P.O. Box 4316, Lima 100, PERU
Trade Name, Common Name or Specification	: GARNET PAPER
Chemical Family of Product Type	: Garnet grain on kraft paper, glue binder
Contact	: E. Bernasconi
Emergency Telephone No	: (415) 325-1997
Approved by	: E. Bernasconi
Date	: 4.15.86

SECTION II: Composition (in order of importance)

Chemical Name	Common Name	CAS	OSHA Permissive Exposure Limit	Carcinogen
Almandite	Industrial garnet		15 mg/m3 (total dust)	No
Kraft paper			N/A	No
Hide glue	Gelatin		N/A	No

All components are present in stable, fully cured, non-reactive, non-toxic, non-volatile, non-flammable stage. Because of wide range of conditions of use, Manufacturer is not able to establish meaningful TLV for combined particles released during normal operation. See Section VIII.

SECTION III: Physical & Chemical Data

Boiling Point:	N/A	Melt. Point:	N/A	Spec. Grav.:	N/A
Vapor Pressure:	N/A	% Volatile:	N/A	Vapor Density:	N/A
Evaporation Rate:	N/A	Solubil. H ₂ O:	N/A	Solubil. Alcohol:	N/A
Solubil. Solvents:	N/A				
Appearance/Odor:	Cloth/Paper/Fiber coated with abrasive mineral grain. some slight odor of dry, cured adhesive system (glue or resin)				

SECTION IV: Fire and Explosion Hazard Data

Flash Point:	Method Used - Not Applicable	Flammable Limits
Extinguishing Media:	Chemical extinguishers not required.	
Special Fire Fighting Procedures:	Use respiratory protection. Backings and resin binders will burn and/or decompose.	
Fire and Explosion Hazards:	Combustion products may be toxic only in restricted, non-ventilated enclosures. No explosion hazard will occur.	

SECTION V: Health, First Aid and Medical Data

Primary Routes of Entry:	Acute & Chronic Effects Effects of overexposure	First aid and medical inform.
Inhalation: (of dust)	Acute: prolonged breathing could cause coughing Chronic: may affect breathing	Remove to fresh air Obtain F. Aid
Ingestion:	Very unlikely. Not known adverse effects.	Obtain F. Aid
Skin contact & absorption:	Not absorbed through nor sensitizing to skin. Abrasive mineral will cause skin abrasion if not handled with care.	Obtain F. Aid
Eye:	Dust may irritate eyes.	Wash with water Obtain F. Aid
Other potential risks:	On some operations high sound level may be created.	Protect ears

SECTION VI: Corrosivity & Reactivity Data

Stability:	Product is stable at all normal storage and operating temperatures
Compatibility:	Not Applicable
Hazardous decomposition products:	Material being ground will generally create substantially greater amounts of air born particles than coated abrasive product components. Minor amounts of fumes from decomposing binders may be present under extreme temperature conditions (high speed grinding).
Conditions to avoid:	None under any likely operative mode



SECTION VII: Storage, Handling and Use Procedures

Normal Storage and Handling:	Provide good ventilation OSHA 29C FR 1910.94 ventilation and OSHA 29C FR 1910.1000 Air contaminants
Normal use:	Provide adequate ventilation See: OSHA 29C FR 1910.94 Ventilation OSHA 29C FR 1910.1000 Air Contaminates OSHA 29C FR 1910.213(P) Sanding Machines OSHA 29C FR 1910.243(a) Portable belt sanding machines
Spill or Leaks:	Materials are stored and handled only in dry condition. Normal clean up procedures apply.
Waste Disposal Methods:	Standard landfill consistent with applicable Federal, State and Local Laws and regulations.

SECTION VIII: Personal Protection Information

Respiratory:	As needed; approved dust respirator OSHA 24C FR 1910.134 recommended for all continuous and high speed (machine) operations.
Ventilation:	Adequate local and general ventilation recommended. Suction-type dust removal recommended when motor operated, high intensity grinders are used on a continuous basis.
Protective gloves:	As desired by user to prevent possible skin abrasion.
Eye protection:	Safety goggles recommended with motor operated equipment, OSHA 29C FR 1910.133 Face & Eye Protection.
Other Protective Equipment:	As desired by user to prevent injury caused by fast moving abrasive material when high speed motor operated equipment is used.

SECTION IX: Special Precautions

Material will NOT release toxic substances during storage at room temperature. Some resin odor from binding system may be released on occasion during storage.
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SECTION X: Regulatory Information

DOT Class:	Not regulated
RCRA Status:	NOT A HAZARDOUS WASTE

The information and recommendations set forth herein are taken from sources believed to be accurate. ABRASIVOS S.A. makes no warranty with respect to the accuracy of the information contained herein and assumes no liability to any user thereof.