



ABRASIVOS^{SA}
LIMA - PERU

SECTION I - NAME AND PRODUCT

DEC 19 2001

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MANUFACTURERS NAME
ABRASIVOS S.A.

Contact: E. Bemasoni
Emergency Telephone # (550) 325 1897

ADDRESS:
TOMAS ALVA EDISON 168 URB IND SANTA ROSA LIMA PERU

Approved by: E. Bemasoni
Date: Oct 1, 2001

TRADE NAME, COMMON NAME OR SPECIFICATION:
Coated Abrasive Products

PRODUCT TYPE:
Aluminum Oxide, Garnet, Silicon Carbide, Zirconia-Alumina, Quartz

SECTION II - COMPOSITION MAY CONTAIN ONE OR MORE OF THE FOLLOWING

CHEMICAL COMPOSITION	COMMON NAME	OSHA REG. (YES/NO)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACH/H TLV	CARCINOGEN (YES/NO)
Al2O3 SIC	Aluminum Oxide	Y	1344-28-1	15mg/M3	10mg/M3	N
Al2O3-ZrO2	Silicon Carbide	Y	409-21-2	15mg/M3	10mg/M3	N
Na3AlF6	Zirconia Alumina	Y	7440-87-7	15mg/M3	10mg/M3	N
KBFe4	Cryolite	Y	15098-52-3	N/A	N/A	N
CaO	Potassium Fluoroborate	Y	14075-53-7	N/A	N/A	N
Zn(C18H35O2)2	Cured Phenolic Resin	Y	80304-36-1	N/A	N/A	N
Si O2	Calcium Oxide	Y	1305-78-8	2mg/M3	N/A	N
Complex (SiO2, FeO, Al2O3)	Zinc Stearate	Y	557-05-01	N/A	10mg/M3	N
	Quartz (crystalline silicon dioxide)	Y	14808-80-7	10mg/M3	0.1mg/M3	N
	Garnet (Almandite)	Y		15mg/M3	N/A	N

Materials are regulated by OSHA 29 CFR 1910.1200 Hazard Communication Standard

SECTION III - PHYSICAL AND CHEMICAL DATA

BOILING POINT: N/A	MELTING POINT: N/A	SPECIFIC GRAVITY: N/A	APPEARANCE AND ODOR: 1) Paper, cloth or fibre coated with abrasive grains. No odor.
VAPOR PRESSURE: N/A	PERCENT VOLATILE BY VOL: N/A	VAPOR DENSITY: N/A	2) Pressed and banded discs and wheels. No odor.
EVAPORATION RATE: N/A	SOLUBILITY IN WATER: N/A	SOLUBILITY IN ALCOHOL: N/A	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A	METHOD USED: N/A	HEALTH: N/A	FLAMMABILITY: 1
EXTINGUISHING MEDIA: N/A	LEV: N/A	REACTIVITY: N/A	0
SPECIAL FIRE FIGHTING PROC: N/A	USE: N/A	PERSONAL PROTECTION: N/A	0
EXPLOSION POTENTIAL: N/A	Any proper fire-fighting material can be used		C
	Use respiratory protection. Backings and resin binders will burn and/or decompose		

SECTION V - HEALTH, FIRST AID & MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY	ACUTE & CHRONIC HEALTH EFFECTS & EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION
INHALATION (DUST)	ACUTE-MAY CAUSE COUGHING SHORTNESS OF BREATH CHRONIC-MAY AFFECT BREATHING CAPACITY	REMOVE TO FRESH AIR, APPLY ARTIFICIAL RESPIRATION AS NEEDED, OBTAIN FIRST AID OR MEDICAL ASSISTANCE.
INGESTION	NOT KNOWN ADVERSE EFFECTS BUT INGESTION NOT RECOMMENDED.	OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.
SKIN	NOT ABSORBED THROUGH SKIN. MAY CAUSE IRRITATIONS	OBTAIN FIRST AID OR MEDICAL ASSISTANCE IF NEEDED
EYE CONTACT	DUST MAY IRRITATE EYES	WASH WITH LARGE AMOUNT OF WATER. OBTAIN MEDICAL ASSISTANCE, IF NEEDED
OTHER POTENTIAL HEALTH RISKS	DURING USE ON SOME MATERIALS ELEVATED SOUND LEVELS MAY BE CREATED WHICH AFFECT HEARING.	OBTAIN MEDICAL ASSISTANCE

SECTION VI - CORROSIVITY AND REACTIVITY DATA

STABILITY:	STABLE <input checked="" type="checkbox"/>	UNSTABLE <input type="checkbox"/>
POLYMERIZATION:	MAY OCCUR <input type="checkbox"/>	WILL NOT OCCUR <input checked="" type="checkbox"/>
INCOMPATIBILITY: (Material to Avoid)	N/A <input type="checkbox"/>	NONE <input checked="" type="checkbox"/>
CONDITIONS TO BE AVOIDED:	NONE	
DECOMPOSITION PRODUCTS:	In use, dust and decomposing resin system fumes are generated. In most cases, the material removed from the work piece will be significantly greater than the coated abrasive product components.	

SECTION VII - STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE HANDLING:	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR 1910.1000 (Air contaminants)
NORMAL USE:	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR 1910.1000 (Air contaminants)
IN CASE OF LEAKS OF SPILLS:	Normal clean up procedures. Vacuum dust
WASTE DISPOSAL METHOD:	Standard landfill methods consistent with applicable Federal, State and Local Laws

SECTION VIII - PERSONAL PROTECTION INFORMATION

RESPIRATORY/PROTECTION:	As needed, approved dust respirator OSHA 24 CFR 1910.134 NIOSH/MSHA
VENTILATION:	LOCAL: Recommended
MECHANICAL:	Recommended
PROTECTIVE GLOVES:	Leather gloves as desired by user.
OTHER EQUIPMENT:	As needed, hearing protection - OSHA 29CFR 1910.215 (Hearing Protection)
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL:	All recommendations as per ANSI 37.1 Safety Guidelines. No special precautions necessary.
SAFETY ON SANDING MACHINES:	See: OSHA 29 CFR 1910.213 (p) (1,2,3&4) OSHA 29CFR 1910.243 (a) (3)

MATERIAL SAFETY DATA SHEET

FANDELI
COATED ABRASIVES

IDENTITY COATED ABRASIVES "CROCUS CLOTH"	TRADE NAME N-72
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SECTION I (MATERIAL IDENTIFICATION)

MANUFACTURER'S NAME Fábrica Nacional de Lija, S.A de C.V.	EMERGENCY TELEPHONE NUMBER 011 525 3661403
ADDRESS (Street, Number, City, State, ZIP Code) Av. Presidente Juárez # 225 San Jerónimo Tepetlaco Tlalnepantla 54000 Estado de México MEXICO	TELEPHONE & FAX NUMBER FOR INFORMATION 011 525 366 1400 fax 011 525 366 1499
	REVISION DATE April, 2002
	PREPARED BY (Technical contact) Alfredo Bañuelos or José Jiménez

SECTION II (MATERIAL DESCRIPTION & HAZARD RATING)

TECHNICAL DESCRIPTION: Iron Oxide coated on a cotton cloth backing and organic binder.	HAZARD RATING: 1, 0, 0	NFPA CODE
CHEMICAL FAMILY NA		Blue: Health hazard Red: Fire hazard Yellow: Reactivity hazard White: Special hazard
CHEMICAL NAME/FORMULA NA		0: Minimum 1: Slight 2: Moderate 3: Serious 4: Extreme
SYNONYMOUS NA		

SECTION III (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

HAZARDOUS COMPONENTS	Chemical name	CAS No.	Common name (s)	Percent	OSHA - PEL (mg/m ³)	ACGIH-TLV (mg/m ³)
	Iron(III) Oxide	1309 - 37 - 1	Iron Oxide	0.5 - 10	not established	not established
	Cotton Backing	NONE	Cotton Cloth	50 - 95	-----	-----
	Organic Glue	NONE	Animal Glue	0.5 - 15	-----	-----

REMARKS
The above materials are not carcinogen.
Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication and/or The Massachusetts General Law, Chapter III, Right to know Regula

SECTION IV (PHYSICAL & CHEMICAL CHARACTERISTICS)

BOILING POINT NA	SOLUBILITY IN WATER NA	SPECIFIC GRAVITY (H ₂ O=1) NA
VAPOR PRESSURE NA	SOLUBILITY IN ALCOHOL NA	MELTING POINT NA
VAPOR DENSITY (Air = 1) NA	SOLUBILITY IN OTHER SOLVENT NA	% VOLATILE BY VOLUME NA
APPEARANCE & ODOR Cloth coated with abrasive particles which are bonded with resin binder.		EVAPORATION RATE NA

SECTION V (FIRE & EXPLOSION HAZARD DATA)

FLASH POINT (Method used) NA	FLAMMABLE LIMITS	LEL NA	UEL NA
EXTINGUISHED MEDIA Water, carbon dioxide, Dry chemical, Foam	SPECIAL FIRE FIGHTING PROCEDURES Backings and cured resin will burn or decompose. Use respiratory protection.		
UNUSUAL FIRE & EXPLOSION HAZARDS NA			

SECTION VI (REACTIVITY DATA)

STABILITY	UNSTABLE STABLE	CONDITIONS TO AVOID X	NA
INCOMPATIBILITY (Materials to Avoid) In use organic fumes may be liberated.			
HAZARDOUS DECOMPOSITION OR BY PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR WILL NOT OCCUR	CONDITIONS TO AVOID X	NA

SECTION VII (HEALTH HAZARD DATA)

ROUTE (s) OF ENTRY During use	INHALATION Airborne dusts or fumes.	SKIN Airborne dusts or fumes.	INGESTION Airborne dusts or fumes.
HEALTH HAZARDS (Acute & chronic) ACUTE & CHRONIC: Breathing difficulty, skin, eye, nasal and respiratory irritation.			
CARCINOGENICITY	NTP NA	IARC MONOGRAPHS NA	OSHA REGULATED NA
SIGNS & SYMPTOMS OF EXPOSURE Deposits or material on skin, in eyes and nasal passages. Coughing and/or breathing difficulties may be present.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Pulmonary disorders, skin or eye disorders.			
EMERGENCY & FIRST AID PROCEDURES Remove to dust free area. Irrigate eyes and/or skin with copious amounts of water. SEEK MEDICAL ATTENTION.			

SECTION VIII (PRECAUTIONS FOR SAFE HANDLING & USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Ordinary precautions for dust and particulates.

WASTE DISPOSAL METHOD
In compliance with Federal, State and local regulations for landfill.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
Not applicable

OTHER PRECAUTIONS
Not applicable

SECTION IX (CONTROL MEASURES)

RESPIRATORY PROTECTION (Specify type)
If limits are exceeded during sanding or grinding, an approved NIOSH must be used, OSHA 29 CFR 1910 - 134

VENTILATION	LOCAL EXHAUST Must be used to control exposure to dust or fumes.	SPECIAL	NA
	MECHANICAL (General) Hoods connected to exhaust ducts and appropriate dust collector.		

PROTECTIVE GLOVES
abrasion and/or skin irritation.

EYE PROTECTION
Wear safety glasses while sanding or grinding.
OSHA 29 CFR 1910 . 133

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
Hearing protection OSHA 29 CFR 1910 . 215

WORK/HYGIENIC PRACTICES
Ordinary washing and cleanliness practices.

ABBREVIATIONS: NA = NOT APPLICABLE

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