

MATERIAL SAFETY DATA SHEET

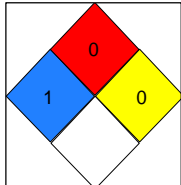


IDENTITY COATED ABRASIVES "ALUMINUM OXIDE"	TRADE NAME G-18
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SECTION I (MATERIAL IDENTIFICATION)

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 Tepetlalcálco Tlalnepantla 54000 Estado de México MEXICO	TELEPHONE & FAX NUMBER FOR INFORMATION 011 525 366 1400 fax 011 525 366 1499
	REVISION DATE July, 2006
	PREPARED BY (Technical contact) Alfredo Bañuelos or José Jiménez

SECTION II (MATERIAL DESCRIPTION & HAZARD RATING)

TECHNICAL DESCRIPTION: Aluminum Oxide coated on a vulcanized fiber backing and resin binder.	HAZARD RATING: 1, 0, 0	NFPA CODE
CHEMICAL FAMILY NA	 <p>Blue: Health hazard Red: Fire hazard Yellow: Reactivity hazard White: Special hazard</p>	0: Minimum 1: Slight 2: Moderate 3: Serious 4: Extreme
CHEMICAL NAME/FORMULA NA		
SYNONYMOUS NA		

SECTION III (HAZARDOUS INGREDIENTS/IDENTITY INFORMATION)

Chemical name	CAS No.	Common name (s)	Percent	OSHA - PEL (mg/m3)	ACGIH-TLV (mg/m3)
Aluminum Oxide (Al ₂ O ₃)	1344 - 28 - 1	Alpha Alumina	15 - 35	15.0 (total dust)	10.0 (total dust)
Zirconia Oxide (ZrO ₂)	1314 - 23 - 4	Zirconia Alumina	5 - 15	5.0 (total dust)	5.0 (total dust)
Phenol-Formaldehyde resin "cured"	NONE	Phenolic Resin	13 - 30	-----	-----
Calcium Fluoride (CaF ₂)	14542 - 23 - 5	Fluorspar	1 - 5	5.3 (total dust)	5.3 (total dust)
Vulcanized Fibre	NONE	Fibre Backing	30 - 60	-----	-----

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 Regulations

SECTION IV (PHYSICAL & CHEMICAL CHARACTERISTICS)

BOILING POINT NA	SOLUBILITY IN WATER NA	SPECIFIC GRAVITY (H₂O=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			

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SECTION VI (REACTIVITY DATA)

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	NA
INCOMPATIBILITY (Materials to Avoid) In use organic fumes may be liberated.			
HAZARDOUS DECOMPOSITION OR BY PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	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: Breathing difficulty, skin, eye, nasal and respiratory irritation; organic fumes can cause gastric pain, internal bleeding or tissue damage. CHRONIC: exposure to organic fumes (fluoride) has been reported to cause osteosclerosis, mottling of tooth enamel and damage to skin, eye and mucous membranes.			
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 respirator must be used. OSHA 29 CFR 1910 - 134
VENTILATION	LOCAL EXHAUST Must be used to control exposure to dust or fumes. MECHANICAL (General) Hoods connected to exhaust ducts and appropriate dust collector.	SPECIAL NA
PROTECTIVE GLOVES abrasion and/or skin irritation.	Wear gloves to prevent	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.		

ABREVIATIONS: NA = NOT APPLICABLE

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