MATERIAL SAFETY DATA SHEET



| IDENTITY COATED ABRA | SIVES "ALUMIN | IUM OXIDE" | TRADE NAME R-13 , R-013 | | | | | | |
|--|--|--|--|--|-------------------|--|--|--|--|
| SECTION I (MATERIAL IDENTIFICATION) | | | | | | | | | |
| MANUFACTURER'S NAME EMERGENCY TELEPHONE NUMBER | | | | | | | | | |
| Fábrica Nacional de Lija, S.A | | 、 | 011 525 3661403 | | | | | | |
| ADDRESS (Street, Number, | | e) | | TELEPHONE & FAX NUMBER FOR INFORMATION 011 525 366 1400 fax 011 525 366 1499 | | | | | |
| Av. Presidente Juárez # 225 San Jerónimo Tepetlacalco | | | 011 525 366 1400 | | | | | | |
| | | | | | | | | | |
| Estado de México | | | July, 2006 PREPARED BY (Technical contact) | | | | | | |
| MEXICO | | | , , , | | | | | | |
| | | | | | | | | | |
| SECTION II (MATERIAL DESCRIPTION & HAZARD RATING) | | | | | | | | | |
| | I: Aluminum Oxide otton backing and res | e coated on a polyester- in binder. | HAZARD RATING: | I, 0, 0 | NFPA CODE | | | | |
| CHEMICAL FAMILY | | | | Blue: Health hazard | 0: Minimum | | | | |
| | NA | | | Red: Fire hazard | I: Slight | | | | |
| CHEMICAL NAME/FORMUL | A | | 1 🗙 0 | Yellow: Reactivity hazard | 2: Moderate | | | | |
| | NA | | | White: Special hazard | 3: Serious | | | | |
| SYNONYMOUS | | | | | 4: Extreme | | | | |
| | NA | | | | | | | | |
| | | | | | | | | | |
| SECTION III (HAZARDOUS | INGREDIENTS/IDE | NTITY INFORMATION) | | | | | | | |
| HAZARDOUS COMPONEN | тs | | | | | | | | |
| Chemical name | CAS No. | Common name (s) | Percent | OSHA - PEL (mg/m3) | ACGIH-TLV (mg/m3) | | | | |
| Aluminum Oxide (Al2O3) | 344 - 28 - | Alpha Alumina | 25 - 50 | 15.0 (total dust) | 10.0 (total dust) | | | | |
| Zirconium Oxide (ZrO2) | 3 4 - 23 - 4 | Zirconia Alumina | 2 - 10 | 5.0 (total dust) | 5.0 (total dust) | | | | |
| Phenol-Formaldehyde | NONE | Phenolic Resin | 20 - 30 | | | | | | |
| resin "cured" | | | | | | | | | |
| Calcium Fluoride (CaF2) Polyester-Cotton Backing | 14542 - 23 - 5 NONE | Fluorspar Polycotton Cloth | l - 5 15 - 50 | 5.3 (total dust) | 5.3 (total dust) | | | | |
| Tolyester-Cotton Dacking | NONE | | 13-50 | | | | | | |
| REMARKS | | | • | • | | | | | |
| The above materials are not care | inogen. | | | | | | | | |
| Materials are regulated by OSHA | 29 CFR 1910.1200, Ha | zard Communication and/or The Mass | sachusetts General Law, Ch | apter III, Right to know Regula | tions | | | | |
| SECTION IV (PHYSICAL & O | CHEMICAL CHARAG | CTERISTICS) | | | | | | | |
| BOILING POINT | NA | SOLUBILITY IN WATER | NA | SPECIFIC GRAVITY (H20 | D=I) NA | | | | |
| VAPOR PRESSURE | NA | SOLUBILITY IN ALCOHOL | NA | MELTING POINT | NA | | | | |
| VAPOR DENSITY (Air = I) | NA | SOLUBILITY IN OTHER SOL | VENT NA | % VOLATILE BY VOLUM | IE NA | | | | |
| APPEARANCE & ODOR | | Cloth coated with abrasive particles | s which are | EVAPORATION RATE | NA | | | | |
| | | bonded with resin binder. | | | | | | | |
| SECTION V (FIRE & EXPLO | SION HAZARD DAT | ſA) | | | | | | | |
| FLASH POINT (Method used) | | FLAMMABLE LIMITS | | LEL | UEL | | | | |
| NA | | | | NA | 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 & EXPLOSI | ON HAZARDS | | | | | | | | |
| | NA | | | | | | | | |
| | | | | | | | | | |

MATERIAL SAFETY DATA SHEET



| IDENTITY | | | TRADE NAME | | | | | | |
|---|--|---|------------------------------|---------------------------------|--------------------------|--|--|--|--|
| COATED ABRASIVES "ALUMINUM OXIDE" | | | R-13, R-013 | | | | | | |
| SECTION VI (REACTIVITY DATA) | | | | | | | | | |
| STABILITY | UNSTABLE | | CONDITIONS TO A | CONDITIONS TO AVOID | | | | | |
| | STABLE | × | | NA | | | | | |
| INCOMPATIBILITY (Materials to Avoid) | | | | | | | | | |
| | In use organic fumes may | be liberated. | | | | | | | |
| HAZARDOUS DECOMPOSITION OR BY PRODUCTS | | | | | | | | | |
| HAZARDOUS | MAY OCCUR | | CONDITIONS TO AVOID | | | | | | |
| POLYMERIZATION | WILL NOT OCCUR | х | NA | | | | | | |
| SECTION VII (HEALTH HAZARD DATA) | | | | | | | | | |
| ROUTE (s) OF ENTRY | | INHALATIO | INHALATION SKI | | INGESTION | | | | |
| During use | | Airborne dusts or fumes. | Airborne dusts or fumes. | | Airborne dusts or fumes. | | | | |
| HEALTH HAZARDS (Acut | te & crhonic) | ACUTE: Breathing difficulty, skin, eye | | | | | | | |
| 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 mucou | • | 3 () | | | | | | | |
| | | NTP | IARC MO | NOGRAPHS | OSHA REGULATED | | | | |
| | | NA | | NA | NA | | | | |
| SIGNS & SYMPTOMS OF | EXPOSURE | Deposits or material on skin, in eyes | and nasal passages. Cough | ing and/or breathing difficulti | es | | | | |
| MEDICAL CONDITIONS | may be present. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Pulmonary disorders, skin or eye disorders. | | | | | | | | |
| | | | | | | | | | |
| EMERGENCY & FIRST AII | D PROCEDURES | | | | | | | | |
| Remove to dust free area. Irrig | ate eyes and/or skin with co | pious amounts of water. | | | | | | | |
| SEEK MEDICAL ATTENTION | | | | | | | | | |
| SECTION VIII (PRECAUT | IONS FOR SAFE HAND | LING & USE) | | | | | | | |
| STEPS TO BE TAKEN IN | CASE MATERIAL IS RE | LEASED OR SPILLED | | | | | | | |
| Ordinary precautions for dust : | and particulates. | | | | | | | | |
| WASTE DISPOSAL METH | | | | | | | | | |
| In compliance with Federal, Sta | te 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 1 | | | | | pproved NIOSH repirator | | | | |
| | | | must be used. OSHA 29 | | | | | | |
| VENTILATION | | t be used to control exposure to dust) Hoods connected to exhaust ducts a | | SPECIAL | NA | | | | |
| PROTECTIVE GLOVES | TECHARTCAE (General | | Wear safety glasses while sa | nding or grinding | | | | | |
| PROTECTIVE GLOVES Wear gloves to prevent abrasion and/or skin irritation. | | | | OSHA 29 CFR 1910 . 133 | | | | | |
| OTHER PROTECTIVE CL | OTHING OR EQUIPME | NT | 1 | | | | | | |
| Hearing protection OSHA 29 (| | | | | | | | | |
| WORK/HYGIENIC PRACTICES | | | | | | | | | |
| Ordinary washing and cleanliness practices. | | | | | | | | | |
| , <u> </u> | · | ABREVIATIONS: NA = NO | OT APPLICABLE | | | | | | |
| "THE INFORM | 1ATION IS PROVIDED IN | good faith and is based on d | | URATE, HOWEVER, FABRI | ICA NACIONAL | | | | |
| DE LIA SA 4. CV MARTE NO WARDANIXY MITH DESPECT OF THE ACCURACY OF THE NEODMATION AND DISCLAMS REPONSABILITY FOR | | | | | | | | | |

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