

MATERIAL SAFETY DATA SHEET

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No. 19 E

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| SECTION I | | | |
| Manufacturer's Name Hermes Abrasives Ltd. | | Emergency Telephone No. (757) 486-6623 | |
| Address (Number, Street, City, State & Zip Code) 524 Viking Drive, Virginia Beach, VA 23452 | | | |
| Chemical Name and Synonyms Compounded tool - coated abrasive | | Trade Name and Synonyms SB 348 YR, Grit # 24 - # 60 RB 484 TY, Grit # 36 - # 120 RB 484 Z, Grit # 24 - # 80 SB 488 Y Grit # 36 - 80 SB 488 YR, Grit # 24 - 80 | |
| Chemical Family Dressed polyester cloth and cured phenolic resin | | Formula Grain: ZrO_2 - Al_2O_3 | |
| Section II - Hazardous Ingredients | | | |
| Components | % by Wt. | OSHA PEL | TLV (TWA) |
| Aluminum Oxide | 9 - 34 | see 5. | 10 mg/m ³ |
| Alumina-Zirkonia | 6 - 27 | 5 mg/m ³ as Zr | 5 mg/m ³ as Zr |
| Calcium carbonate | 5 - 9 | see 5. | 10 mg/m ³ |
| Inorganic Fluorides | 2 - 6 | 2.5 mg/m ³ as F | 2.5 mg/m ³ as F |

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|---|-----|---|---|
| Total nuisance dust Total dust: Respirable fraction: | | 15 mg/m ³ 5 mg/m ³ | - - |
| Particulates Not Otherwise Classified (PNOC) Inhalable fraction: Respirable fraction: | | - - | 10 mg/m ³ 3 mg/m ³ |
| Section III - Physical Data | | | |
| Boiling point | N/A | Specific gravity | N/A |
| Vapor pressure | N/A | Percent volatile by Vol. | N/A |
| Vapor density | N/A | Evaporation rate | N/A |
| Solubility in water not soluble | | | |
| Appearance and odor Solid tool, may release a weak odor of phenolic resin | | | |
| Section IV - Fire and Explosion Hazard Data | | | |
| Flash point | N/A | Flammable limits | N/A |
| Extinguishing media water, CO ₂ | | | |
| Special fire fighting procedures Resin binder will decompose and may release a small amount of phenol and formaldehyde. Use respiratory protection | | | |
| Unusual fire and explosion hazards N/A | | | |

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| Section V - Health Hazard Data |
| Threshold limit value: See Section II |
| Effects of overexposure: See Addendum |
| Emergency and first aid procedures: See Addendum |

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| Section VI - Reactivity Data | | | |
| Stability | Unstable | | Conditiones to avoid N/A |
| | Stable | X | |
| Incompability (materials to avoid) N/A | | | |
| Hazardous decomposition products See Section IV | | | |
| Hazardous polymerisation | May occur | | Conditions to avoid N/A |
| | Will not occur | X | |
| Section VII - Spill or Leak Procedures, Storage and Handling | | | |
| Steps to be taken in case material is released or spilled Normal clean up procedures | | | |
| Storage Recommended conditions: 20 (±2)°C, 45-65 % relative humi- dity. A large stock may release a weak odor of phenolic resin. | | | |
| Handling and use procedures No special recommendations. | | | |
| Waste disposal method Landfill. Should run in compliance with federal, state and local law. | | | |
| Section VIII - Special Protection Information | | | |
| Protective Equipment | | | See Addendum |
| Ventilation | | | |
| Section IX - Special Precautions | | | |
| Precautions to be taken in handling and storing Handle with care. Product may cause cuts or abrasions. | | | |

OSHA Hazard Communication Standard
29 CFR 1910-1200

Addendum to MSDS 19 E

to Section V - Health Hazard Data

| PRIMARY ROUTES OF ENTRY | ACUTE HEALTH EFFECTS | CHRONIC HEALTH EFFECTS | EMERGENCY AND FIRST AID PROCEDURES |
|-------------------------|---|--|---|
| INHALATION | Excessive concentrations of dust may cause throat irritations | May effect breathing capacity | Move to fresh air, seek medical advice if chronic |
| EYES | Dust may irritate eyes. Abrasive grit in eyes may cause damage | n/a | Wash with large quantities of water. Seek medical advice if irritation persists |
| EYES | May cause abrasions and cuts. Some may experience irritations from dust | n/a | Wash well with soap and water. Treat and protect cuts |
| INGESTION | No known hazard | n/a | Seek medical advice if any symptoms |
| OTHER POTENTIAL RISKS | n/a | On some lines and materials sound levels may be created which affect hearing | Obtain medical assistance if necessary |

MEDICAL CONDITIONS OF AGGRAVATION:
Preexisting skin-, upper airway- and eyedisorders may be aggravated by exposure to abrasive grinding dust.

to Section VIII - Special Protection Information

Personal Protection in Use:

In all cases the material removed from the work piece will be significantly greater than the coated abrasive product components. Users must assess the hazards caused by the abrasive process and material being abraded. Exposures to abrasive grinding dust (originated by work piece and abrasive product) should be kept as low as practicable.

Ventilation:

Local Exhaust: Recommended to keep dust levels below TLV's. See also OSHA 29 CFR 1910.94.

Respiratory Protection:

In work areas without adequate local exhaust ventilation use approved dust respirator. See also OSHA 29 CFR 1910. 134.

Eye Protection: Use safety glasses during grinding. See also OSHA 29 CFR 1910.133

Protective Gloves: Recommended

Hearing Protection: May be required

Other Protective Equipment: Depends on local conditions

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

Date prepared: June 2001