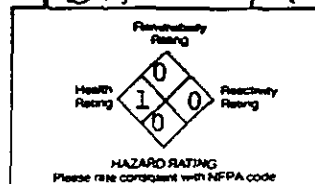


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## MATERIAL SAFETY DATA SHEET

SECTION I NAME AND PRODUCT							
MANUFACTURER'S NAME NORTON COMPANY					CONTACT SAFETY DEPT.		
ADDRESS (STREET, CITY, STATE AND ZIP CODE) P.O. BOX 808, TROY, NY 12180					EMERGENCY TELEPHONE NO 518-273-0100		
TRADE NAME, COMMON NAME OR SPECIFICATION COATED ABRASIVE PRODUCT - NorZon R824					APPROVED BY J.J. McG DATE 5-1-86		
CHEMICAL FAMILY OR PRODUCT TYPE Alumina-Zirconia Oxide & Resin Binder							
SECTION II COMPOSITION							
CHEMICAL NAME	%	COMMON NAME	REG.* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV <sup>2</sup>	CARCIN- OGEN* (Y/N)
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	60	Alpha Alumina	Y	1349-28-1	15mg/M <sup>3</sup> (Total Dust)	10mg/M <sup>3</sup>	N
Zirconia Oxide (ZrO <sub>2</sub> )	40	Zirconia	Y	1314-23-4	5mg/M <sup>3</sup> (As Zr)	5mg/M <sup>3</sup> (As Zr)	N

\* Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right To Know Regulations

SECTION III PHYSICAL AND CHEMICAL DATA			
BOILING POINT	N/A	MELTING POINT	N/A
VAPOR PRESSURE	N/A	PERCENT VOLATILE BY VOL.	N/A
EVAPORATION RATE	N/A	SOLUBILITY IN WATER	N/A
SOLUBILITY IN OTHER SOLVENT		APPEARANCE AND ODOR	
N/A		Cloth Coated with Abrasive Material	
SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT	N/A	(METHOD USED)	N/A
EXTINGUISHING MEDIA	N/A	FLAMMABLE LIMITS LEL	N/A UEL N/A
SPECIAL FIRE FIGHTING PROCEDURES Backings & Resin Binder will burn or decompose, use respiratory protection			
EXPLOSION POTENTIAL N/A			
SECTION V HEALTH, FIRST AID AND MEDICAL DATA			
PRIMARY ROUTE(S) OF ENTRY	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE		FIRST AID AND MEDICAL INFORMATION
INHALATION (During Use)	Acute -May cause coughing, shortness (Dust) of breath Chronic -May effect breathing capacity (Dust)		Remove to fresh air apply arti- ficial respiration as needed. Obtain First Aid or Medical assistance
INGESTION	No known adverse effects, but ingestion not recommended		Obtain First Aid or Medical assistance, if needed
SKIN CONTACT & ABSORPTION	Not absorbed through skin; may cause abrasions		Obtain First Aid or Medical assistance, if needed
EYE	Dust may irritate eyes		Wash with large amounts of water Obtain First Aid or 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

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SECTION VI CORROSIVITY AND REACTIVITY DATA			
STABILITY	UNSTABLE <input type="checkbox"/>	STABLE <input checked="" type="checkbox"/>	POLYMERIZATION    MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR <input checked="" type="checkbox"/>
INCOMPATIBILITY (MATERIALS TO AVOID)			
N/A			
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			
CONDITIONS TO BE AVOIDED			
N/A			

SECTION VII STORAGE, HANDLING AND USE PROCEDURES	
NORMAL STORAGE AND HANDLING	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR1910.1000 (Air Contaminates)
NORMAL USE	Handle with adequate ventilation. See OSHA 29CFR1910.94 (Ventilation) and OSHA 29CFR1910.1000 (Air Contaminates), OSHA CFR1910.213(P) Sanding Machines and OSHA CFR1910.243(a) (3) Portable Belt Sanding Machines
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS	Normal clean up procedures
WASTE DISPOSAL METHOD	Standard landfill methods consistent with applicable Federal, State & Local Laws

SECTION VIII PERSONAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (SPECIFY TYPE)	As needed, approved dust respirator OSHA 24 CFR1910-134	
VENTILATION	LOCAL	Recommended
	MECHANICAL (GENERAL)	Recommended
	OTHER	NAIF
PROTECTIVE GLOVES	As desired by user	
EYE PROTECTION	Recommend-OSHA 29CFR1910.133 (Face & Eye Protection)	
OTHER EQUIPMENT	As needed, hearing protection-OSHA 29CFR1910.215 (Hearing Protection)	
MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL		
See Sections VI, VII, VIII		

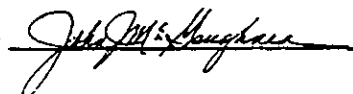
SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	A Formaldehyde or Phenolic Resin odor from the binding system may on occasion be released during storage.
OTHER PRECAUTIONS	N/A

FOR COMPANY USE
The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Norton Company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

\*\*NAIF=NO APPLICABLE INFORMATION FOUND

\*\*\*N/A=NOT APPLICABLE

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