



### MATERIAL SAFETY DATA SHEET

#### SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME <b>NORTON COMPANY</b>	CONTACT <b>THOMAS Z. RICHARDS</b>
ADDRESS (STREET, CITY, STATE AND ZIP CODE) <b>1 NEW BOND STREET, WORCESTER, MA 01615-0008</b>	EMERGENCY TELEPHONE NO. <b>508-795-2690</b>
TRADE NAME, COMMON NAME OR SPECIFICATION <b>RESINOID BONDED GRINDING WHEELS</b>	APPROVED BY <i>Kemavanan</i> DATE <b>April 17, 1990</b>
CHEMICAL FAMILY OR PRODUCT TYPE <b>BONDS: FFX, GFX, HFX, IFX, JTX, KTX, MTX, NTX, PTX, XFL, FL, M, R, IGX, LGX, NTX SOFT, MEDIUM, HARD, X-HARD</b>	

#### SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4)

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Alpha-Alumina	80	Alundum, Seeded Gel	Y	1344-28-1	10mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Silicon Carbide	80	Crystolon	Y	409-21-2	10mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N

The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be a part of the bond system.

Resin Coated Glass	20%	Fiberglass	Y	12604-58-9	**NAIF	10mg/m <sup>3</sup>	N
Acrylonitrile Copolymer	20%	Nitrile Latex	Y	107-13-1	**NAIF	***N/A	N
Cotton (Raw)	20%	Cotton	Y	7440-50-8	1mg/m <sup>3</sup> Dust	**NAIF	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 **NAIF	MELTING POINT **NAIF	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF	APPEARANCE AND ODOR SOLID PRODUCT: MAY GIVE OFF ODOR IN USE.	

#### SECTION IV SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - NONE.  
OTHER PRECAUTIONS:

\*\*NAIF

#### SECTION V CORROSIVITY AND REACTIVITY DATA

STABILITY <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
COMPATIBILITY (MATERIALS TO AVOID) **NAIF	
DECOMPOSITION PRODUCTS In use, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.	
CONDITIONS TO BE AVOIDED **NAIF	

## SECTION VI 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 Grinding)	ACUTE: POSSIBLE COUGH CHRONIC: MAY AFFECT BREATHING CAPACITY.	REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ASSISTANCE.
INGESTION (During Grinding)	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	OBTAIN MEDICAL ASSISTANCE.
SKIN (During Grinding)      CONTACT & ABSORPTION	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE.
EYE (During Grinding)	DUSTS MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE, IF NEEDED.
OTHER POTENTIAL HEALTH RISKS (During Grinding)	GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.	OBTAIN MEDICAL ASSISTANCE. THERE IS LIMITED INFORMATION THAT CRYSTALLINE SILICA IS A CARCINOGEN.

## SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING SEE ANSI STANDARD B7.1.
NORMAL USE HANDLE WITH ADEQUATE VENTILATION. SEE OSHA 29CFR 1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CONTAMINANTS)
STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS. NORMAL CLEANUP PROCEDURES.
WASTE DISPOSAL METHOD STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.

## SECTION VIII PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS SEE OSHA 29CFR 1910.134.	
VENTILATION	LOCAL                      RECOMMENDED
	MECHANICAL (GENERAL)      RECOMMENDED
	OTHER                      **NAIF
PROTECTIVE GLOVES	RECOMMENDED
EYE PROTECTION	RECOMMENDED SEE OSHA 29CFR 1910.133
OTHER EQUIPMENT	AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)
WORK/HYGIENIC PRACTICES: WASH FREQUENTLY WITH SOAP AND WATER	

## SECTION IX FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	**NAIF	METHOD USED	***N/A	FLAMMABLE LIMITS	LEL N/A	UEL ***N/A
EXTINGUISHING MEDIA	USE WATER					
SPECIAL FIRE FIGHTING PROCEDURES	NONE					
EXPLOSION POTENTIAL	**NAIF					

### 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