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Flammability
Rating
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Health A Reactivity
Rating (1.X.O) Rating
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HAZARD RATING

Please rate consistent with NFPA Code

MATERIAL SAFETY DATA SHEET

SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME NORTON COMPANY	CONTACT THOMAS Z. RICHARDS
ADDRESS (STREET, CITY, STATE AND ZIP CODE) 1 NEW BOND STREET, WORCESTER, MA 01606-2698	EMERGENCY TELEPHONE NO. 617-853-1000 - Ext. 2690
TRADE NAME, COMMON NAME OR SPECIFICATION	APPROVED BY JAPATIM
ORGANIC BONDED GRINDING WHEELS	DATE 11-21-55

CHEMICAL FAMILY OR PRODUCT TYPE ANY GRADE

MET016

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

CHEMICAL NAME	COMMON NAME	REG (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	AGGIH TLV	
Alpha-Alumina	Alundum	Y	1344-28-1	15mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Impurities (SiO ₂ + Fe ₂ O ₃ +CaO+MgO)						
Titanium Oxide	Titania	Y	13463-67-7	15mg/m ³	10mg/m ³	N
Con Carbide	Crystolon	Ŷ	409-21-2	15mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Zirconia Oxide	Zirconia	Y	NAIF	5mg/m ³	5mg/m ³	. N
The grinding wheel may be comprised of 1	or more of the above abras	sives. The	chemicals listed t	elow may be a part o	of the bond system	m.
Fluorides (as F)	N/A	TY	NA	2.5mg/m ³	2.5mg/m ³	N
Calcium Oxide	Lime	Y	1305-78-8	5mg/m ³	2mg/m ³	N
Iron Disulphide	Pyrites	N	12068-85-8	NAIF	NAIF	N
Creosote Oil	Carbosota	Y	8001-58-9	.2mg/m ³	.2mg/m ³	Y
Barium Sulfate	Barytes	Ŷ	7727-43-7	.5mg/m³	.5mg/m ³	N
Glass, Fibrous or Dust	Fiberglass	Y	NAIF	NAIF	10mg/m ³	N
Sulfur	Suifur	Y	7704-34-9	NAIF	NAIF	N
Tin	Tin	Y	7440-31-5	2mg/m ³	2mg/m ³	N

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

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 OR SOLID PRODUCT: MAY	DER Y GIVE OFF ODOR IN USE.
• •	SECTION IV SPECIAL PRECAUTIONS	S
PRECAUTIONS TO BE TAKEN IN HANDLING OTHER PRECAUTIONS:		

This grinding wheel specification may contain a small amount (1% or less) of a creosote oil. Only trace amounts of this substance from the grinding wheel will be in the total materials released during grinding. The supplier of the raw creosote states that "prolonged and repeated skin exposure may result in skin cancer."

\bigcirc	SECTION V CORROSIVITY AND REACTIVITY DATA					
STABILITY		STABLE	POLMERIZATION	MAY OCCUR	WILL NOT OCCUR	
INCOMPATABILIT	MATERIALS TO AV	(010)				
NAIF	:					
DECOMPOSITION P	BOOLICTS					

In use, dust and decomposing organic fumes are generated. In most cases, the matarial removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may product other decomposition products.

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1	SECTION VI HEALTH, FIRST AID AND MEDICAL DATA				
RIMARY ROUTE(S)	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND MEDICAL INFORMATION			
INHALATION (DURING GRINDING)	ACUTE: COUGHING, SHORTNESS OF BREATH. 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 CONTACT & ABSORPTION (DURING GRINDING)	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSIS- TANCE.			
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.	OBTAIN MEDICAL ASSISTANCE.			

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING SEE ANSI STANDARD B7.1.

NORMAL USE

HANDLE WITH ADEQUATE VENTILATION. SEE OSHA 29CFR1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CONTAMINATES)

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS.

MAL CLEANUP PROCEDURES.

ASTE 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 29CFR1910.134.

VENTILATION LOCAL RECOMMENDED

MECHANICAL (GENERAL) RECOMMENDED OTHER NAIF

PROTECTIVE GLOVES

AS DESIRED BY USER

EYE PROTECTION

RECOMMENDED SEE OSHA 29CFR1910.133

OTHER EQUIPMENT

AS NEEDED HEARING PROTECTION SEE OSHA 29CFR1910.215 (HEARING PROTECTION) MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CON-TACT WITH THIS MATERIAL.

SEE SECTIONS VII & VIII

SECTION IX FIRE AND EXPLOSION	ON HAZARD DATA
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LASH POINT MAIF (METHOD USED) N/A FLAMMABLE LIMITS LEL N/A UEL N/A XTINGUISHING MEDIA USE WATER FIRE FIGHTING PROCEDURES NONE XPLOSION POTENTIAL NAIF

FOR COMPANY USE

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