Dev.



MATERIAL SAFETY DATA SHEET



SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME	CONTACT
NORTON COMPANY	THOMAS Z. RICHARDS
ADDRESS (STREET, CITY, STATE AND ZIP CODE)	EMERGENCY TELEPHONE NO.
1 NEW BOND STREET, WORCESTER, MA 01606-2698	617-853-1000 — Ext. 2690
TRADE NAME, COMMON NAME OR SPECIFICATION	APPROVED BY Mixim
ORGANIC BONDED GRINDING WHEELS	DATE 11-21-35
CHEMICAL FAMILY OR PRODUCT TYPE ANY GRADE	

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

CHEMICAL NAME	COMMON NAME	REG (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	AGGIH TLV	CARC OGE TY: N
Alpha-Alumina	Alundum	Y	1344-28-1	15mg/m³ (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
Silicon Carbide	Crystolon	Υ	409-21-2	15mg/m ³ 10mg/n (Total Dust) (Total Du		N
Zirconia Oxide	Zirconia	Υ	NAIF	5mg/m ³	5mg/m³	N
The grinding wheel may be comprised of 1	or more of the above abrasiv	es. The	chemicals listed b	elow may be a part o	of the bond system	m.
Fluorides (as F)	N/A	Υ	NA	2.5mg/m ³	2.5mg/m ³	N
Calcium Oxide	Lime	Υ	1305-78-8	5mg/m ³	2mg/m³	N
Iron Disulphide	Pyrites	N	12068-85-8	NAIF	NAIF	N
Creosote Oil	Carbosota	Υ	8001-58-9	.2mg/m ³	.2mg/m ³	Y
Barium Sulfate	Barytes	Υ	7727-43-7	.5mg/m ³	.5mg/m³	N
Glass, Fibrous or Dust	Fiberglass	Υ	NAIF	NAIF	10mg/m ³	N
Sulfur	Sulfur	Υ	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, Right 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
SOLUBINITY IN OTHER COLVENT. NAIE	APPEARANCE AND ORDER	

SOLUBILITY IN OTHER SOLVENT NAIF

SOLID PRODUCT: MAY GIVE OFF ODOR IN USE.

SECTION IV SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE — NONE. 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."

SECTION V CORROSIVITY AND REACTIVITY DATA

STABILITY UNSTABLE 🗆 STABLE 🕱	POLMERIZATION	MAY OCCUR	WILL NOT OCCUR X
INCOMPATABILITY (MATERIALS TO AVOID)			
NAIF			
DECOMPOSITION PRODUCTS			

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

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.

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 CONTACT WITH THIS MATERIAL.

SEE SECTIONS VII & VIII

SECTION IX FIRE AND EXPLOSION HAZARD DATA								
FLASH POINT	NAIF		(METHOD USED)	N/A	FLAMMABLE LIMITS	LEL N/A	UEL	N//
EXTINGUISHING M	1EDIA	USE WATER			· · · · · · · · · · · · · · · · · · ·			
SPECIAL FIRE FIG	HTING P	ROCEDURES	NONE					
EXPLOSION POTEN	ITIAL	NAIF						-

FOR COMPANY USE

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