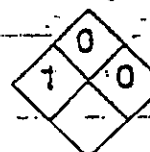


OM0268

Flammability
RatingHealth
RatingReactivity
Rating

HAZARD RATING

Please rate consistent with NFPA Code

MATERIAL SAFETY DATA SHEET

SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME NORTON COMPANY	CONTACT RONALD L. KARBOWSKI
ADDRESS (STREET, CITY, STATE AND ZIP CODE) NEW BOND STREET, WORCESTER, MA. 01615-0008	EMERGENCY TELEPHONE NO. 508-795-2255
NAME, COMMON NAME OR SPECIFICATION EBBER & SHELLAC BONDED GRINDING WHEELS.	APPROVED BY <i>K. Karbowski</i> DATE 6/11/92
FAMILY OR PRODUCT TYPE ANY GRADE	

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)
Amorphous Silica	2	Silica Gel	Y	63231-67-4	6mg/m ³	10mg/m ³	N
Sulfur	8	Sulfur	Y	7704-34-9	**NAIF	**NAIF	N
Carbon Black	2	**N/A	Y	**N/A	2.5mg/m ³	2.5mg/m ³	N
Carbon Black	11	**N/A	Y	1333-86-4	3.5mg/m ³	3.5mg/m ³	N
Diethyl Phthalate	1	**N/A	Y	84-74-2	5mg/m ³	5mg/m ³	N
Methyl Tuads	1	Methyl Tuads	Y	137-26-8	5mg/m ³	1mg/m ³	N
Crystalline Silica	<1	Crystalline Silica	Y	14808-60-7	0.1mg/m ³	0.1mg/m ³	Y

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

Alumina	90	Alundum	Y	1344-28-1	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Carbon Carbide	90	Crystolon	Y	409-21-2	10mg/m ³ (Total Dust)	10mg/m ³ (Total Dust)	N
Zirconia Alumina	90	NZ, ZS, ZF	Y	**NAIF	5mg/m ³ (as Zirconium)	5mg/m ³ (as Zirconium)	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.

Grinding tests with wheels known to contain Crystalline Silica did not produce any detectable amount of respirable free Silica.

SECTION III PHYSICAL AND CHEMICAL DATA

G 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: ☐ UNSTABLE ☒ STABLE POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR
REACTIVITY (MATERIALS TO AVOID): DECOMPOSITION PRODUCTS: In dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding components. Coolants may produce other decomposition products.
PRECAUTIONS TO BE AVOIDED: **NAIF
NO APPLICABLE INFORMATION FOUND

**N/A = NOT APPLICABLE

**SUBJECT TO EPA SECTION 302 DEFINITIVE 29 CFR PART 1910

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)	DUST MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSIS- TANCE, IF NEEDED.
OTHER POTENTIAL HEALTH RISKS (During Grinding)	GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND MAY AGGRAVATE PREEXISTING RESPIRATORY CON- DITIONS.	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.

PTS 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)

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT WITH THIS MATERIAL:

SEE SECTION VII & VIII

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

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