

MATERIAL SAFETY DATA SHEET (MSDS)

Please retain for your records.

GRINDING WHEEL

Flammability Rating  
6A082-6A083  
5A880-6A920  
6A084-6A094

NORTON Health Rating 0 0 Reactivity Rating

MATERIAL SAFETY DATA SHEET  
Please rate consistent with NFPA Code

HAZARD RATING

SECTION I NAME AND PRODUCT = 2SF17 =

MANUFACTURER'S NAME  
NORTON COMPANY CONTACT  
THOMAS Z. RICHARDS

ADDRESS STREET, CITY, STATE AND ZIP CODE  
1 NEW BOND STREET, WORCESTER, MA 01615-0008 EMERGENCY TELEPHONE NO. 508-795-2690

TRADE NAME, COMMON NAME OR SPECIFICATION  
VITRIFIED BONDED - ABRASIVE PRODUCTS APPROVED BY

DATE April 17, 1990

CHEMICAL FAMILY OR PRODUCT TYPE  
ANY GRADE

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

OSHA CHEMICAL NAME %	CARCINI MAX (Y/N)	COMMON NAME	REG*
Alpha-Alumina OR	96	Alundum, Seeded Gel	Y
Silicon Carbide	96	Crystolon	Y
Sulfur Treatment	41	No. 22 Treat	Y

  

CHEMICAL NAME # EXPOSURE LIMIT	CAS TLV	PERMISSIVE (Y/N)	ACGIH	OGEN
Alpha-Alumina OR	1344-28-1	10mg/m3 (Total Dust)	10mg/m3 (Total Dust)	N
Silicon Carbide (Total Dust)	409-21-2	10mg/m3	10mg/m3	N
Sulfur Treatment	7704-34-9	**NAIF	**NAIF	N

NOTE: Wheel Treatment ranges from 21 to 41% concentration based on wheel weight

\*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

VAPOR PRESSURE \*\*NAIF PERCENT VOLATILE BY VOL \*\*NAIF

EVAPORATION RATE \*\*NAIF SOLUBILITY IN WATER Slight

SPECIFIC GRAVITY 2.4

VAPOR DENSITY \*\*NAIF

SOLUBILITY IN ALCOHOL \*\*NAIF

APPEARANCE AND ODOR

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:  
\*\*NAIF

SECTION V CORROSIVITY AND REACTIVITY DATA

STABILITY [ ] UNSTABLE [X] STABLE POLYMERIZATION MAY OCCUR [X]  
WILL NOT OCCUR [ ]

INCOMPATIBILITY (MATERIALS TO AVOID)  
Avoid acids of all types with a Ph = 4.0

DECOMPOSITION PRODUCTS

In use, dusts are generated. In most cases, the airborne 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

\*\*NAIF = NO APPLICABLE INFORMATION FOUND \*\*\*N/A = NOT APPLICABLE

SECTION VI HEALTH, FIRST AID AND MEDICAL DATA

PRIMARY ROUTE(S) OF ENTRY ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE

INHALATION (During Grinding) ACUTE: COUGHING, SHORTNESS OF BREATH. CHRONIC: MAY AFFECT BREATHING CAPACITY.

INGESTION (During Grinding) NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.

SKIN (During Grinding) CONTACT & ABSORPTION SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.

EYE (During Grinding) DUSTS MAY IRRITATE EYES.

OTHER POTENTIAL HEALTH RISKS (During Grinding)

GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING AND MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.

PRIMARY ROUTE(S) OF ENTRY

FIRST AID AND MEDICAL INFORMATION

INHALATION (During Grinding) OBTAIN MEDICAL ASSISTANCE.

REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED.

INGESTION (During Grinding)

OBTAIN MEDICAL ASSISTANCE.

SKIN (During Grinding)

CONTACT & ABSORPTION

WASH AFFECTED AREAS WITH SOAP AND WATER, OBTAIN MEDICAL ASSISTANCE.

EYE (During Grinding) WASH, IF NEEDED.

WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE.

OTHER POTENTIAL HEALTH RISKS (During Grinding)

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 29 CFR 1910.1000 (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.

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 AS DESIRED BY USER

EYE PROTECTION RECOMMENDED SEE OSHA 29CFR 1910.133

OTHER EQUIPMENT (HEARING PROTECTION) AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95

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 \*\*\* NAIF  
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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