

MATERIAL SAFETY DATA SHEET (MSDS)
Please retain for your records.

**GRINDING
WHEELS**

Flammability
Rating
10-6A083
4920
4994

NORTON

Health
Rating

0 0

Reactivity
Rating

MA 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

EMERGENCY TELEPHONE NO.

TRADE NAME, COMMON NAME OR SPECIFICATION

APPROVED BY

VITRIFIED BONDED - ABRASIVE PRODUCTS

DATE April 17, 1990

CHEMICAL FAMILY OR PRODUCT TYPE

ANY GRADE

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

OSHA CHEMICAL NAME	CARCINO 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	OSHA
Alpha-Alumina OR (Total Dust)	1344-28-1	10mg/m3 (Total Dust)	10mg/m3 (Total Dust)	N
Silicon Carbide (Total Dust)	409-21-2	10mg/m3 (Total Dust)	10mg/m3 (Total Dust)	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

POINT **NAIF	MELTING POINT **NAIF
APPEARANCE **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 = 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)	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST. DUSTS MAY IRRITATE EYES.

OTHER POTENTIAL
HEALTH RISKS
(During Grinding)
DUSTS.

PRIMARY ROUTE(S)
OF ENTRY

INHALATION
(During Grinding)
OBTAIN MEDICAL ASSISTANCE.

INGESTION
(During Grinding)

SKIN (During
Grinding)

EYE
(During Grinding)
TANCE, IF NEEDED.

OTHER POTENTIAL
HEALTH RISKS
(During Grinding)

GRINDING MAY CREATE ELEVATED SOUND
LEVELS WHICH MAY AFFECT HEARING AND MAY
AGGRAVATE EXISTING RESPIRATORY CON-

FIRST AID AND
MEDICAL INFORMATION

REMOVE TO FRESH AIR.
ARTIFICIAL RESPIRATION AS NEEDED.

OBTAIN MEDICAL ASSISTANCE.

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

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

OBTAIN MEDICAL ASSISTANCE.
THERE IS LIMITED INFORMATION THAT
CRYSTALLINE SILICA IS A CARCINOGEN.

SECTION VII STORAGE, HANDLING AND USE PRECAUTIONS

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
MECHANICAL
(GENERAL)

LOCAL

RECOMMENDED

OTHER **NAIF

PROTECTIVE GLOVES

AS DESIGNED BY USER

EYE PROTECTION

RECOMMENDED SEE OSHA 29CFR 1910.133

OTHER EQUIPMENT
29CFR 1910.95 (HEARING PROTECTION)

AS NEEDED HEARING PROTECTION SEE OSHA

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
FLAMMABLE LIMITS LEL N/A UEL ***N/A

EXTINGUISHING MEDIA
W/F WATER

SPECIAL FIRE FIGHTING PROCEDURES
NONE

EXPLOSION POTENTIAL
**NAIF

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