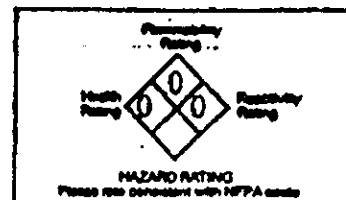


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MATERIAL SAFETY DATA SHEET

SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME NORTON COMPANY		CONTACT David R. Nichols
ADDRESS (STREET, CITY, STATE AND ZIP CODE) 1 New Bond Street, Worcester, MA 01606		EMERGENCY TELEPHONE NO. (617) 795-2393
TRADE NAME, COMMON NAME OR SPECIFICATION 32 ALUNDUM		APPROVED BY <i>[Signature]</i> DATE November 1, 1985
CHEMICAL FAMILY OR PRODUCT TYPE Refractory Oxide		

SECTION II COMPOSITION

CHEMICAL NAME	%	COMMON NAME	REG. (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINO- GEN* (Y/N)
Alpha Alumina (Aluminum Oxide) (Al ₂ O ₃)	99	ALUMINUM OXIDE	Y	1344-28-1	15 mg/m ³ (Total Dust)	10 mg/m ³	N
Total Impurities	1	(SiO ₂ + Fe ₂ O ₃ + TiO ₂ + CaO + MgO + Na ₂ O + C + S)					

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	2072°C	SPECIFIC GRAVITY	3.8 - 4.0
VAPOR PRESSURE	NAIF	PERCENT VOLATILE BY VOL.	NAIF	VAPOR DENSITY	NAIF
EVAPORATION RATE	NAIF	SOLUBILITY IN WATER	INSOLUBLE	SOLUBILITY IN ALCOHOL	NAIF
SOLUBILITY IN OTHER SOLVENT	NAIF	APPEARANCE AND ODOR	Granular, White to Grey to Pink Color, Sulfur Odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NAIF	(METHOD USED)	N/A	FLAMMABLE LIMITS	LEL N/A UEL N/A
EXTINGUISHING MEDIA	NAIF				
SPECIAL FIRE FIGHTING PROCEDURES	NONE				
EXPLOSION POTENTIAL	NONE				

SECTION V 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 (DUST)	Acute: May Cause Coughing, Shortness of Breath Chronic: May Affect Breathing Capacity	Remove to fresh air: Apply artificial respiration as needed. Obtain first aid or medical assistance.
INGESTION	No Known Adverse Effects, But Ingestion Not Recommended	Obtain first aid or medical assistance, if needed.
SKIN CONTACT & ABSORPTION	Not Absorbed Through Skin: May Cause Abrasions	Obtain first aid or medical assistance, if needed.
EYE (DUST)	May irritate eyes.	Wash with large amounts of water; obtain first aid or medical assistance, if needed.
OTHER POTENTIAL HEALTH RISKS	None Known	

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SECTION VI CORROSIVITY AND REACTIVITY DATA

ABILITY UNSTABLE ☐ STABLE ☒

POLYMERIZATION MAY OCCUR ☐ WILL NOT OCCUR ☒

COMPATIBILITY (MATERIALS TO AVOID)

NAIF

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DECOMPOSITION PRODUCTS

NAIF

CONDITIONS TO BE AVOIDED

NAIF

SECTION VII STORAGE, HANDLING AND USE PROCEDURES

NORMAL STORAGE AND HANDLING

Handle with adequate ventilation for nuisance dust. See OSHA 29 CFR 1910.94 (Ventilation) and CFR 1910.1000 (Air Contaminants)

NORMAL USE

Handle with adequate ventilation for nuisance dust.
See OSHA 29 CFR 1910.94 (Ventilation) and 29 CFR 1910.1000 (Air Contaminants)

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS

Normal Cleanup Procedures. Respirators may be required.

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, approved dust respirator. See OSHA 29 CFR 1910.134

VENTILATION

LOCAL

RECOMMENDED

MECHANICAL
(GENERAL)

RECOMMENDED

OTHER

NAIF

PROTECTIVE GLOVES

AS DESIRED BY USER

EYE PROTECTION

RECOMMENDED. SEE OSHA 29 CFR 1910.122

OTHER EQUIPMENT

NAIF

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

SEE SECTION VII AND VIII

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

NONE

OTHER PRECAUTIONS

NAIF

FOR COMPANY USE

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Norton Company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.