

Flammability
Rating

Health
Rating

HAZARD RATING

Please rate consistent with NFPA Code

MATERIAL SAFETY DATA SHEET
SECTION I NAME AND PRODUCT

MANUFACTURER'S NAME		· ·			CON	TACT	
NORTON COMPANY					TH	IOMAS Z. RICHA	ARDS
ADDRESS (STREET, CITY, STATE AND ZIP CODE)		· · · · · · · · · · · · · · · · · · ·		<del></del>	EME	ERGENCY TELEPHONE NO	·
1 NEW BOND STREET, WO	RCE	STER, MA 01615-0	800		50	8-795-2690	
TRADE NAME, COMMON NAME OR SPECIFICATIO					APF	PROVED BY araya	-von
RESINOID BONDED GRIND	ING	WHEELS	•		DAT		89
CHEMICAL FAMILY OR PRODUCT TYPE	ANY	GRADE	· . :				· .
SECTIO	N II	COMPOSITION PE	R 290	FR 1910.12	200 (G) (4)		
CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS	OSHA PERMISS EXPOSURE	IVE ACGIH	CARCII OGEN (Y/N)
Alpha-Alumina****	90	Alundum, Seeded Gei	Υ	1344-28-1	15mg/m (Total Du		N
Silicon Carbide	90	Crystolon .	Y	409-21-2	15mg/m (Total Du		N
Zirconia Alumina	90	NZ, ZF, ZS	Y	**NAIF	5mg/m (as Zir∞ni		N
a grinding wheel may be comprised of 1 or	r more	of the above abrasives. The c	hemical	s listed below ma	y be a part of th	e bond system.	
Fluorides (as F)	. з	***N/A	Y	***N/A	2.5mg/n	n³ 2.5mg/m³	N
Calcium Oxide	3	Lime	٧	1305-78-8	5mg/m	² 2mg/m³	N
Glass, Fibrous or Dust	10	Fiberglass	Y,	"NAIF	**NAIF	10mg/m³	N
Silicon Dioxide	<1	Crystalline Silica	Y	14808-60-7	. 15mg/n	0.1mg/m³	Y
*Materials are regulated by OSHA 29 CFR 1 Know Regulations.	910.12	00, Hazard Communication St	landard,	and/or the Massa	achusetts Gener	ral Law Chapter 111F, Ri	ght To
SE	CTIC	ON III PHYSICAL A	ND C	HEMICAL [	ATA	Ŧ	
BOILING POINT "NAIF		LTING POINT "NAIF.			SPECIFIC GRAV	/ITY 2-4	$\equiv$ $\circ$
VAPOR PRESSURE "NAIF	APOR PRESSURE "NAIF PERCE		ENT VOLATILE BY VOL "NAIF		VAPOR DENSITY "NAIF		
EVAPORATION RATE "NAIF	<del></del>			SOLUBILITY IN	LUBILITY IN ALCOHOL "NAIF		
SOLUBILITY IN OTHER SOLVENT "NAIF				NCE AND ODOR ODUCT: MAY GIV	E OFF ODOR IN	USE.	T
	SE	CTION IV SPECIAL					
PRECAUTIONS TO BE TAKEN IN HANDLING AND OTHER PRECAUTIONS:  **NAIF	STOR	AGE - NONE.			· ·		
SECT	TION	V CORROSIVITY	AND	REACTIVIT	Y DATA		
STABILITY UNSTABLE X STAB		POLYMERIZ	<del></del>	☐ MAY O		LL NOT OCCUR	
OMPATABILITY (MATERIALS TO AVOID)				- · · · · · · · · · · · · · · · · · · ·			
DECOMPOSITION PRODUCTS		<del></del>		<del></del>		· · · · · · · · · · · · · · · · · · ·	
In use, dust and decomposing organic fume grinding wheel components. Coolants may				removed from th	e workpiece will	be significantly greater t	han the
CONDITIONS TO BE AVOIDED  **NAIF					<u>.</u>		
"NAIE - NO ADDITION ENTRY		***NIA NOT ARRIVOARIE			TION 640 0000	TING LINDED SADA ACCE	DADTO

87075-87079 s	ECTION VI HEALTH, FIRST AID AND ME	DICAL DATA JODZ
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 (During CONTACT & Grinding) ABSORPTION		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 AND MAY AGGRAVATE PREEXISTING RESPIRATORY CONDITIONS.	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 CON TAMINANTS)

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.

	<del></del>	TION VIII PERSONAL PROTECTION INFORMATION	· · · · · · · · · · · · · · · · · · ·
RESPIRATORY	PROTECTION (SE	ECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS	SEE OSHA 29CFR 1910.134
VENTILATION	LOCAL	RECOMMENDED	
	MECHANICAL (GENERAL)	RECOMMENDED	
•	OTHER	**NAIF	: <u>.</u>
·			/
PROTECTIVE O	GLOVES	AS DESIRED BY USER	
EYE PROTECT	ION	RECOMMENDED SEE OSHA 29CFR 1910.133	
OTHER EQUIP	MENT	AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.	.95 (HEARING PROTECTION
MEASURES TO WITH THIS MA		IG REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT T	THAT HAS BEEN IN CONTA
		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 PROCED	URES NONE				
EXPLOSION POTENTIAL	**NAIF				

## FOR COMPANY USE

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