

3.	🕜
Health Rating	<u> </u>

Reactivity

HAZARD RATING Please rate consistent with NFPA Code

Flammebility Rating

SECTION I NAME AND PRODUC	→ 3	
ACTURER'S NAME		CONTACT
RTON COMPANY	• • •	RONALD L. KARBOWSKI
SS (STREET, CITY, STATE AND ZIP CODE)		EMERGENCY TELEPHONE NO.
NEW BOND STREET, WORCESTER, MA 01615-0008		508-795-2255
NAME, COMMON NAME OR SPECIFICATION		APPROVED BY
AMOND OR CUBIC BORON NITRIDE: GRINDING WHEELS		DATE Seles

\$1 FAMILY OR PRODUCT TYPE .

ANY GRADE

SECTION II COMPOSITION PER 29CFR 1910.1200 (G) (4)	SECTION	COMPOSITION	PER 29CFR	1910.1200	(G)	(4)
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020110	1 4 11 1	Somi Contour		71 11 19 19 12	30 (4) (4)		
CHEMICAL NAME	MAX %	. : COMMON NAME	REG*	CAS #	PERMISSIVE EXPOSURE LIMIT	ACGIH :TLV	CARCIN OGEN (Y/N)
,	85	Silver	Y	7440-22-4	.01mg/m³	.1mg/m³	N
If	60	Cobalt	Y	7440-48-4	.05mg/m³	.05mg/m³	N
er ****	85	Copper	Y	- 7440-50-8	1mg/m³ ·-	1mg/m³	N
	25	Tin :	Y	7440-31-5	2mg/m³	2mg/m³	N
nite	20	Graphite	Y	7782-42-5	15MPPCF	2m g/m³ (Respirable Dust)	N
n Carbide **	73	Crystolon	Y	409-21-2	10mg/m³	10mg/m³	N
t-Alur	81	Alundum	Y	1344-28-1	(Total Oust)	(Total Dust)	
<u>बन्</u> ।	85.	Nickel :-	7.1	7440-02-0	1mg/m³	1mg/m³	Y••
phones ****	í	Phosphorus	I Y	7723-14-0	0.1mg/m³	0.1mg/m³	N
janese	3	Manganese	Y	7,439-96-5	5mg/m³	5mg/m³	N
bdenum	1	Molybdenum	Y	7439-98-7	15mg/m²	10mg/m³	N
in Powder	5	Silicon Powder	Y.	7440-21-3	"NAIF-	10mg/m³	N
con Dioxide	<1	Crystalline Silica	·Y	·14808-60-7	- 0.1mg/m³ -	0,1mg/m³ -	. Y
sten Carbide	75	Tungsten Carbide	Y	12070-12-1	5mg/m³	5ma/m³	N

erials are regulated by OSHA 29 CFR 1910;1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right To w Regulations. *Listed by NTP as a Carcinogen. Other studies are not in agreement with IRAC that nickel is a probable human carcinogen.

I 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	-
PRESSURE "NAIF	PERCENT VOLATILE BY VOL	"NAIF	,VAPOR DENSITY "NAIF	
WATKON RATE: NAIF	SOLUBILITY IN WATER Slight		SOLUBILITY IN ALCOHOL	"NAIF"
BILITY IN OTHER SOLVENT		APPEARANCE AND ODOR SOUD PRODUCT: - MAY GIT	Æ OFF OCOR IN USE.	.cr ==
			ر د معادل کا این کا	خوسوها البسيات ويدا

	SECTION	SPECIAL PRECACTIONS	<u>• </u>	<u> </u>
LUTIONS TO BE TAKEN R PRECAUTIONS:		The second secon		
	*NAIF-、			<u> </u>
	CEATION V CARR		DATA -	•

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LITY UNSTASLE STABLE	YMERIZATION MAY OCC	NB 🚡 🔯 MITT NOT OCCUS	ار پرده چهر میشد در داده شد در داده
APAT TY (MATERIALS TO AVOID)		The second secon	
MPOSITION PRODUCTS	÷ .	_ · · · · · · · · · · · · · · · · · · ·	* ^ ;

ia, dust and decomposing odors are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel ponents. Coalants may produce other decomposition products.

MONS TO BE AVOIDED TO THE THE PERSON OF

× S	ECTION VI HEALTH, FIRST AID AND ME	DICAL DATA
MARY ROUTE(S) - ENTRY "	ACUTE AND CHRONIC HEALTH EFFECTS AND EFFECTS OF OVEREXPOSURE	FIRST AID AND : MEDICAL INFORMATION
ALATION ing Grinding)	ACUTE: POSSIBLE COUGH CHRONIC: MAY AFFECT BREATHING CAPACITY.	REMOVE TO FRESH AIR. ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN MEDICAL ASSISTANCE.
ESTION ing Grinding)	NO KNOWN ADVERSE EFFECTS, BUT	OBTAIN MEDICAL ASSISTANCE.
1 (During CONTACT & ding) ABSORPTION	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	WASH AFFECTED AREAS WITH SOAP AND WATER. OBTAIN MEDICAL ASSISTANCE.
ing Grinding)	DUST MAY IRRITATE EYES.	WASH WITH LARGE AMOUNTS OF WATER. OBTAIN FIRST AID AND MEDICAL ASSISTANCE. IF NEEDED.
IER POTENTIAL LTH RISKS ing 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

MAL STORAGE AND HANDLING

ANSI STANDARD 87.1.

MAL USE

UDLE WITH ADEQUATE VENTILATION. SEE OSHA 29CFR 1910.94 (VENTILATION) and 29CFR1910.1000 (AIR CON AINANTS)

PS TO BE TAKEN IN CASE OF LEAKS OR SPILLS.

RMAL CLEANUP PROCEDURES.

ITE DISPOSAL METHOD

UNDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

SECTION VIII PERSONAL PROTECTION INFORMATION

SPIRATORY PROTECTION (SPECIFY TYPE) AS NEEDED. FOR APPROVED DUST RESPIRATORS SEE OSHA 29CFR 1910,134.

ITILATION LOCAL RECOMMENDED

MECHANICAL RECOMMENDED

OTHER "NAIF

PIECTIVE GLOVES . RECOMMENDED

EPROTECTION :: RECOMMENDED SEE OSHA 29CFR 1910.133

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

SURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT THAT HAS BEEN IN CONTACT

SEE SECTION VII & VIII

SECTION IX FIRE AND EXPLOSION HAZARD DATA TO

SH POINT "NAIF METHOD USED. ""N/A FLAMMABLE LIMITS LEE N/A UEL ""N/A INGUISHING MEDIA USE WATER"

INGUISAING MEDIA USE WATER

CTAL FIRE FIGHTING PROCEDURES NONE

"LOSION POTENTIAL "NAIF

-- -- FOR COMPANY.USE _

information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Norton