



Flammability Rating  
Health Rating  
Reactivity Rating

0	0
1	0

HAZARD RATING  
Please rate consistent with NFPA Code

**MATERIAL SAFETY DATA SHEET**  
**SECTION I NAME AND PRODUCT**

MANUFACTURER'S NAME <b>NORTON COMPANY</b>	CONTACT <b>THOMAS Z. RICHARDS</b>
ADDRESS (STREET, CITY, STATE AND ZIP CODE) <b>1 NEW BOND STREET, WORCESTER, MA 01615-0008</b>	EMERGENCY TELEPHONE NO. <b>508-795-2690</b>
TRADE NAME, COMMON NAME OR SPECIFICATION <b>RESINOID BONDED GRINDING WHEELS</b>	APPROVED BY <i>K. Marayana</i> DATE 1/23/89
CHEMICAL FAMILY OR PRODUCT TYPE ANY GRADE	

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

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Alpha-Alumina****	90	Alundum, Seeded Gel	Y	1344-28-1	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Silicon Carbide	90	Crystolon	Y	409-21-2	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Zirconia Alumina	90	NZ, ZF, ZS	Y	**NAIF	5mg/m <sup>3</sup> (as Zirconium)	5mg/m <sup>3</sup> (as Zirconium)	N

The grinding wheel may be comprised of 1 or more of the above abrasives. The chemicals listed below may be a part of the bond system.

Fluorides (as F)	3	***N/A	Y	***N/A	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>	N
Calcium Oxide	3	Lime	Y	1305-78-8	5mg/m <sup>3</sup>	2mg/m <sup>3</sup>	N
Glass, Fibrous or Dust	10	Fiberglass	Y	**NAIF	**NAIF	10mg/m <sup>3</sup>	N
Silicon Dioxide	<1	Crystalline Silica	Y	14808-60-7	15mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	Y

\*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	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF	APPEARANCE AND ODOR 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 <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID) **NAIF	
DECOMPOSITION PRODUCTS In use, dust and decomposing organic fumes are generated. In most cases, the 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

\*\*\*\*SUBJECT TO EPA SECTION 313 REPORTING UNDER SARA 40CFR PART 372. A PETITION HAS BEEN SUBMITTED TO THE EPA TO DELIST IT.

## SECTION VI 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 (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 Grinding)      CONTACT & ABSORPTION	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	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 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. PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.

## 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	AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)
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	***N/A	FLAMMABLE LIMITS	LEL N/A	UEL ***N/A
EXTINGUISHING MEDIA	USE WATER					
SPECIAL FIRE FIGHTING PROCEDURES	NONE					
EXPLOSION POTENTIAL	**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.



**MATERIAL SAFETY DATA SHEET**

**SECTION I NAME AND PRODUCT**

MANUFACTURER'S NAME <b>NORTON COMPANY</b>	CONTACT <b>THOMAS Z. RICHARDS</b>
ADDRESS (STREET, CITY, STATE AND ZIP CODE) <b>1 NEW BOND STREET, WORCESTER, MA 01615-0008</b>	EMERGENCY TELEPHONE NO. <b>508-795-2690</b>
TRADE NAME, COMMON NAME OR SPECIFICATION <b>RUBBER &amp; SHELLAC BONDED GRINDING WHEELS</b>	APPROVED BY <i>K. Marayanan</i> DATE <i>1/23/89</i>
CHEMICAL FAMILY OR PRODUCT TYPE ANY GRADE	

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

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Amorphous Silica	2	Silica Gel	Y	63231-67-4	20 mppcf	10mg/m <sup>3</sup>	N
Sulfur	8	Sulfur	Y	7704-34-9	**NAIF	**NAIF	N
Fluorides (as F)	2	***N/A	Y	***N/A	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>	N
Carbon Black	11	***N/A	Y	1333-86-4	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	N
Dibutyl Phthalate****	1	***N/A	Y	84-74-2	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	N
Thiram	1	Methyl Tuads	Y	137-26-8	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	N

The chemicals listed above may be a part of the bond system. The grinding wheel may be comprised of one or more of the following abrasives.

Alpha Alumina****	90	Alundum	Y	1344-28-1	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Silicon Carbide	90	Crystolon	Y	409-21-1	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Zirconia Alumina	90	NZ, ZS, ZF	Y	**NAIF	5mg/m <sup>3</sup> (as Zirconium)	5mg/m <sup>3</sup> (as Zirconium)	N
Silicon Dioxide	<1	Crystalline Silica	Y	14808-60-7	15mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	Y

\*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	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF		APPEARANCE AND ODOR 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 <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID) **NAIF	
DECOMPOSITION PRODUCTS In use, dust and decomposing resin system fumes are generated. In most cases, the 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	

## SECTION VI 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 (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 Grinding) CONTACT & ABSORPTION	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	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 CONTAMINANTS)
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WASTE DISPOSAL METHOD STANDARD LANDFILL METHODS CONSISTENT WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. PRODUCTS WITH LISTED FLOURIDES MAY HAVE SLIGHTLY SOLUBLE FLOURIDE SWARF.

## 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	AS NEEDED HEARING PROTECTION SEE OSHA 29CFR 1910.95 (HEARING PROTECTION)
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	***N/A	FLAMMABLE LIMITS	LEL N/A	UEL ***N/A
EXTINGUISHING MEDIA	USE WATER					
SPECIAL FIRE FIGHTING PROCEDURES	NONE					
EXPLOSION POTENTIAL	**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.



**MATERIAL SAFETY DATA SHEET**

**SECTION I NAME AND PRODUCT**

MANUFACTURER'S NAME <b>NORTON COMPANY</b>	CONTACT <b>THOMAS Z. RICHARDS</b>
ADDRESS (STREET, CITY, STATE AND ZIP CODE) <b>1 NEW BOND STREET, WORCESTER, MA 01615-0008</b>	EMERGENCY TELEPHONE NO. <b>508-795-2690</b>
TRADE NAME, COMMON NAME OR SPECIFICATION <b>VITRIFIED BONDED - ABRASIVE PRODUCTS</b>	APPROVED BY <i>Dr. Sheldon</i> DATE <b>12-16-88</b>
CHEMICAL FAMILY OR PRODUCT TYPE <b>ANY GRADE</b>	

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

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Alpha-Alumina**** OR	96	Alundum, Seeded Gel	Y	1344-28-1	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Silicon Carbide	96	Crystolon	Y	409-21-2	15mg/m <sup>3</sup> (Total Dust)	10mg/m <sup>3</sup> (Total Dust)	N
Sulfur Treatment	41	No. 22 Treat	Y	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	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF	APPEARANCE AND ODOR 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 <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> 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

\*\*\*\*SUBJECT TO EPA SECTION 313 REPORTING UNDER SARA 40CFR PART 372. A PETITION HAS BEEN SUBMITTED TO THE EPA TO DELIST IT.





Rating

0	0
1	0

HAZARD RATING  
Please rate consistent with NFPA Code

Health Rating      Reactivity Rating

### MATERIAL SAFETY DATA SHEET

#### SECTION I NAME AND PRODUCT

<b>MANUFACTURER'S NAME</b> <b>NORTON COMPANY</b>	<b>CONTACT</b> <b>THOMAS Z. RICHARDS</b>
<b>ADDRESS (STREET, CITY, STATE AND ZIP CODE)</b> <b>1 NEW BOND STREET, WORCESTER, MA 01615-0008</b>	<b>EMERGENCY TELEPHONE NO.</b> <b>508-795-2690</b>
<b>TRADE NAME, COMMON NAME OR SPECIFICATION</b> <b>DIAMOND OR CUBIC BORON NITRIDE GRINDING WHEELS</b>	<b>APPROVED BY</b> <i>[Signature]</i> <b>DATE</b> <i>1/23/89</i>
<b>CHEMICAL FAMILY OR PRODUCT TYPE</b> ANY GRADE	

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

CHEMICAL NAME	MAX %	COMMON NAME	REG* (Y/N)	CAS #	OSHA PERMISSIVE EXPOSURE LIMIT	ACGIH TLV	CARCINOGEN (Y/N)
Silver ****	85	Silver	Y	7440-22-4	.01mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	N
Cobalt ****	60	Cobalt	Y	7440-48-4	.1mg/m <sup>3</sup>	.1mg/m <sup>3</sup>	N
Copper ****	85	Copper	Y	7440-50-8	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>	N
Tin	25	Tin	Y	7440-31-5	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	N
Graphite	5	Graphite	Y	7782-42-5	15MPPCF	5mg/m <sup>3</sup> (Respirable Dust)	N
Silicon Carbide **	73	Crystolon	Y	409-21-2	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N
Alpha-Alumina ****	81	Alundum	Y	1344-28-1	(Total Dust)	(Total Dust)	
Nickel ****	82	Nickel	Y	7440-02-0	1mg/m <sup>3</sup>	1mg/m <sup>3</sup>	Y*
Phosphorus ****	1	Phosphorus	Y	7723-14-0	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	N
Manganese	3	Manganese	Y	7439-96-5	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	N
Molybdenum	1	Molybdenum	Y	7439-98-7	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N
Silicon Powder	5	Silicon Powder	Y	7440-21-3	**NAIF	10mg/m <sup>3</sup>	N
Silicon Dioxide	<1	Crystalline Silica	Y	14808-60-7	15mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	Y

\*Materials are regulated by OSHA 29 CFR 1910.1200, Hazard Communication Standard, and/or the Massachusetts General Law Chapter 111F, Right To Know Regulations. \*Listed by NTP as a Carcinogen. Other studies are not in agreement with IRAC that nickel is a probable human carcinogen.

#### SECTION III PHYSICAL AND CHEMICAL DATA

BOILING POINT **NAIF	MELTING POINT >220°C	SPECIFIC GRAVITY 2-4
VAPOR PRESSURE **NAIF	PERCENT VOLATILE BY VOL **NAIF	VAPOR DENSITY **NAIF
EVAPORATION RATE **NAIF	SOLUBILITY IN WATER Slight	SOLUBILITY IN ALCOHOL **NAIF
SOLUBILITY IN OTHER SOLVENT **NAIF	APPEARANCE AND ODOR 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 <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	POLYMERIZATION <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR
INCOMPATIBILITY (MATERIALS TO AVOID) **NAIF	
DECOMPOSITION PRODUCTS In use, dust and decomposing organic fumes are generated. In most cases, the 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	

