

Rubber or Shellac Bonded Abrasive Products

MATERIAL SAFETY DATA SHEET

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DATE PRINTED: 3/24/1995
 MSDS NO. RUBBER/SHELLAC000
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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

SECTION 3. HAZARDS IDENTIFICATION

MANUFACTURER
 Norton Company, 1 New Bond St.
 Worcester, MA, 01615
 (508) 795-5000

REVISION DATE
 3/21/1995

MSDS PRINT FORMAT
 NORTONUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Zirconium Oxide	30.000-50.000	1314-23-4
Aluminum Oxide	40.000-90.000	1344-28-1
Fiberglass	0.003-10.000	65997-17-3
Silicon Carbide	80.000-90.000	409-21-2
acrycstalline Silica, quartz	0.001-1.000	14808-60-7
Carbon Black	5.000-11.000	1333-86-4
dibutyl phthalate(+)	0.010-1.000	84-74-2
Bis(Dimethylthiocarbmyl)disulf	0.010-1.000	137-26-8
Amorphous Silica, silica gel	0.010-2.000	112926-00-8
Fluorides	2.000-10.000	NA

** SUBSTANCE IS A COMPOUND AND/OR MIXTURE

OTHER
 (+) This substance is regulated under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and the Canadian National Pollution Reduction Initiative (NPRI).
 (a) Actual grinding tests with wheels known to contain Crystalline Silica did not produce any detectable amount of respirable free Crystalline Silica.
 The grinding wheel may be comprised of only some of the above.

INITIATION ACUTE EXPOSURE EFFECTS
 Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

EYE CONTACT ACUTE EXPOSURE EFFECTS
 Dust may irritate eyes.

SKIN CONTACT ACUTE EXPOSURE EFFECTS
 Some may experience skin irritation from dust.

INGESTION ACUTE EXPOSURE EFFECTS
 No known adverse effects, but ingestion not recommended.

SECTION 4. FIRST AID MEASURES

INHALATION
 Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

SKIN CONTACT
 Wash affected areas with soap and water. Obtain medical assistance.

EYE CONTACT
 Wash with large amounts of water. Obtain first aid and medical assistance, if needed.

INGESTION
 Call poison control center, hospital emergency room or physician immediately.

SECTION 5. FIRE FIGHTING MEASURES

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SECTION 5. FIRE FIGHTING MEASURES
 (CONTINUED)

FIRE FIGHTING PROCEDURES
 N/A
 HAZARDOUS PRODUCTS/COMBUSTION
 None

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
 Follow normal clean up procedures

SECTION 7. HANDLING AND STORAGE

HANDLING
 Always HANDLE AND STORE wheels in a CAREFUL manner.
 Always VISUALLY INSPECT all wheels before mounting.
 Always CHECK MACHINE SPEED against the established maximum safe operating speed MARKED ON THE WHEEL.
 Always CHECK MOUNTING FLANGES for equal and correct diameter.
 Always USE MOUNTING BLOTTERS.
 Always be sure WORK REST is properly adjusted.
 Always USE A SAFETY GUARD covering at least one-half of the grinding wheel.
 Always allow NEWLY MOUNTED WHEELS to run at operating speed, with guard in place, for at least one minute before grinding.
 Always TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance wheel.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
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VENTILATION PROTECTION
 Handle with adequate ventilation. See OSHA 29 CFR 1910.94 (ventilation) and 29 CFR 1910.1000 (Air contaminants).

RESPIRATORY PROTECTION
 Respirators are required when airborne contaminant levels exceed the TLV(s).

EYE PROTECTION
 Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

OTHER PROTECTION
 Use of this product may create elevated sound levels. Hearing protection should be worn where required. (see OSHA 29CFR1910.134 and other applicable regulations)

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG. AGENCY	PEL	TLV	STEL
Zirconium Oxide	OSHA	15.0000	0.0000	0.0000
	ACGIH	0.0000	10.0000	0.0000
	NIOSH	0.0000	0.0000	0.0000
	MOL	0.0000	0.0000	0.0000
Aluminum Oxide	OSHA	10.0000	0.0000	0.0000
	ACGIH	0.0000	10.0000	0.0000
	NIOSH	0.0000	0.0000	0.0000
	MOL	0.0000	0.0000	0.0000
fiberglass	OSHA	5.0000	0.0000	0.0000
	ACGIH	0.0000	10.0000	0.0000
	NIOSH	0.0000	0.0000	0.0000
	MOL	0.0000	0.0000	0.0000

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Material	OSHA	ACGIH	NIOSH	MOL	OSHA	ACGIH	NIOSH	MOL	OSHA	ACGIH	NIOSH	MOL
Silicon Carbide	10.0000	0.0000	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Amorphous silica, silica gel	6.0000	0.0000	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fluorides	2.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	2.5000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

LEGEND:

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EXPOSURE LIMIT DESCRIPTIONS

CELL	Celling Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWAEV	Time weighted ave. exp. value

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR
 Solid article, Odorless

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES

DECOMPOSITION
 In use, dust and decomposing odors are generated. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

INHALATION CHRONIC EXPOSURE EFFECTS
 Chronic: May affect breathing capacity.

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SECTION 12. ECOLOGICAL INFORMATION

CHEMICAL FATE
Resin bonded materials demonstrate similar degradation rates as phenolic plastics.
Vitrified products do not appreciably decay.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
Follow landfill methods consistent with applicable federal, state and local laws. Products listed with Fluorides may have slightly soluble fluoride swarf.

SECTION 14. TRANSPORT INFORMATION

HAZARD CLASS
This product is not hazardous as defined by the Department of Transportation.

SECTION 15. OTHER INFORMATION

CARCINOGENICITY
Fiberglass contained in wheels have fiber diameters greater than 10 um, therefore considered non-respirable.
Crystalline silica, Quartz - IARC-2A, NIOSH-X, NTP-2

CA PROP 65
This product contains a chemical, Crystalline Silica, known to the state of California to cause cancer and/or birth defects or other reproductive harm.

SECTION 15. OTHER INFORMATION
(CONTINUED)

TSCA
Section 8(b) - Inventory Status
All components of this product are registered under the regulations of the Toxic Substance Control Act.

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