

50581

**MATERIAL SAFETY DATA SHEET**

PART# 66253021634  
 DATE PRINTED: APR 21, 2004  
 MSDS NO. NZRESIN001 OUTBOUND  
 Alumina/Zirconia Resin Grinding Wheel

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

PRODUCT NAME  
 Alumina/Zirconia Resin Grinding Wheel  
 TRADE NAME  
 NorZon  
 MANUFACTURER(4)  
 Saint-Gobain Abrasives, Inc.  
 One New Bond Street  
 Worcester, MA, 01606  
 (508) 795-5000  
 REVISION DATE  
 2/12/2002  
 MSDS PRINT FORMAT  
 NUSA

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Aluminum Oxide, Non-fibrous	40.000- 60.000	1344-28-1
Cured PhenolFormaldehyde Resin	3.000- 6.000	9003-35-4
Fiberglass	1.000- 10.000	65997-17-3
Iron Disulfide	1.000- 10.000	12068-85-8
Zirconium Oxide	30.000- 50.000	1314-23-4
OTHER		
Not Applicable		

**SECTION 3. HAZARDS IDENTIFICATION****INHALATION ACUTE EXPOSURE EFFECTS**

Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

**INHALATION CHRONIC EXPOSURE EFFECTS**

Chronic: May affect breathing capacity.

For products containing phenol/formaldehyde resin, dust generated from intended use may contain trace amounts of phenol and formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction.

For products containing inorganic fluorides, excessive exposure to inorganic fluorides have been shown to increase bone density.

**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****FIRE FIGHTING PROCEDURES**

Not Applicable

**HAZARDOUS PRODUCTS/COMBUSTION**

None.

**HAZARD RATING SOURCE**

NFPA

**HEALTH**

1

**FLAMMABILITY**

0

**REACTIVITY**

0

**OTHER****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****VENTILATION PROTECTION**

Recommend using local exhaust ventilation when general ventilation is not keeping the airborne concentration below the TLV.

**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 29 CFR 1910.134 and other applicable regulations).

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

## APPEARANCE &amp; ODOR

Solid article. Odorless.

**SECTION 10. STABILITY AND REACTIVITY**

## INCOMPATIBILITIES

Avoid acids of all types with a pH < 4.0.

## DECOMPOSITION

In use, dust and decomposing odors may be 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.

For products containing Phenol and formaldehyde resin, thermal decomposition may produce trace amounts of phenol and formaldehyde.

For products containing inorganic fluorides, thermal decomposition may produce trace amounts of fluorides.

**SECTION 11. TOXICOLOGICAL INFORMATION**

## CARCINOGENICITY

For wheels containing fiberglass, fiber diameters are greater than 10um, therefore considered non-respirable.

Fiberglass - IARC-3

LD50/LC50

Values are not appropriate or available.

**SECTION 12. ECOLOGICAL INFORMATION**

## CHEMICAL FATE

Resin bonded material