

**MATERIAL SAFETY DATA SHEET**

PART# 66252830611  
 DATE PRINTED: FEB 26, 2010  
 MSDS NO. ALRESIN056                      OUTBOUND  
 Aluminum Oxide Resin Grinding Wheel

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

PRODUCT NAME  
 Aluminum Oxide Resin Grinding Wheel  
 TRADE NAME  
 Alundum Wheel  
 MANUFACTURER(4)  
 Saint-Gobain Abrasives, Inc.  
 One New Bond Street  
 Worcester, MA, 01606  
 (508) 795-5000  
 REVISION DATE  
 2/01/2010  
 MSDS PRINT FORMAT  
 NUSA

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

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Aluminum Oxide, Non-fibrous	60.000- 90.000	1344-28-1
Cured PhenolFormaldehyde Resin	2.000- 15.000	9003-35-4
Inorganic Fluorides                      **	1.000- 15.000	NA
Iron Disulfide	2.000- 30.000	12068-85-8

\*\* SUBSTANCE IS A COMPOUND AND/OR MIXTURE  
 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 & 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 materials demonstrate similar degradation rates as Phenolic plastics.

Vitrified products do not appreciably decay.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### WASTE DISPOSAL

Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

Products with listed fluorides may have slightly soluble fluoride swarf.

### **SECTION 14. TRANSPORT INFORMATION**

HAZARD CLASS  
N/A

**SECTION 15. REGULATORY INFORMATION**

-----  
EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	UNITS	OSHA	ACGIH	MOL
Aluminum Oxide, Non-fibrous	MG/M3	15.0000	10.0000	10.0000
Cured PhenolFormaldehyde Resin	PPM	0.0000	0.0000	0.0000
Inorganic Fluorides	MG/M3	2.5000	2.5000	2.5000
Iron Disulfide	MG/M3	10.0000	10.0000	10.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

CA PROP 65

Not Applicable

TSCA

Section 8(b) - Inventory Status

All components of this product are registered under the regulations of the Toxic Substance Control Act.

DOMESTIC SUBSTANCE LIST

All components of this product are found on the Domestic Substance List of the country of Canada.

**SECTION 16. OTHER INFORMATION**

DISCLAIMER

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

KEY TO ABBREVIATIONS:

EQ=Equal

AP=Approximately

=

LT=Less Than

TR=Trace

GT=Greater Than

ND=No Data available