



Safety Data Sheet  
Date Issued – Nov 11<sup>th</sup>, 2015

Osborn SDS Number: AB-01  
Small Diameter Abrasive Wheels

# **Safety Data Sheet**

## **Small Diameter Abrasive Wheels**

### **Date Issued - 11/11/2015**

### **SDS Number - AB-01**

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

##### *PRODUCT DESCRIPTION:*

Small Diameter Abrasive Wheels (Cutoff, Combination, and Grinding)

##### *GENERAL USE:*

Cutting, Notching, and Grinding

##### *MANUFACTURER ADDRESS:*

Osborn  
2350 Salisbury Road  
Richmond, Indiana 47374, U.S.A.

##### *CONTACT NUMBER:*

765-965-5333

##### *24 HOUR EMERGENCY TELEPHONE NUMBER:*

Chemtrec 800-424-9300

#### **2. HAZARD IDENTIFICATION**

##### *EMERGENCY OVERVIEW*

Dust generated from the intended use of this product may contain trace amounts of inorganic fluorides. Excessive exposure to fluoride has been shown in NIOSH studies to increase bone density. Dust generated from the intended use of this product may contain trace levels of phenolic resins which may under excessive exposure cause skin sensitization and airway obstruction

##### *GHS Label requirements*

##### *Pictogram*

None

##### *Signal Word*

None

##### *Hazard Statement*

Exposure to grinding dust may aggravate existing respiratory problems.



### 3. COMPOSITION/INGREDIENT INFORMATION

<i>Ingredients</i>	<i>CAS</i>	<i>Weight %</i>	<i>OSHA Regulated</i>
Aluminum Oxide*	1344-28-1	60.0 – 95.0	15mg/M3 !
Silicon Carbide	409-21-2	55.0 - 95.0	15mg/M3 !
Zirconium Oxide	1314-23-4	0.0 - 9.0	5mg/M3 (as Zr)
Phenol/Formaldehyde Binder **	None Found	5.0 - 20.0	None Found
Fiberglass ^	65997-17-3	0.0 - 7.0	15mg/M3
Graphite	7782-42-5	0.0 - 2.0	15mppcf
Calcium Oxide	1305-78-8	0.0 - 3.0	5mg/M3
Fluorides ~#	Various	1.0 - 15.0	2.5mg/M3 (as F)
Calcium Compounds~	Various	1.0 - 12.0	15mg/M3 !
Sulfates & Sulfides~	Various	0.0 - 15.0	15mg/M3 !
Rubber	78-79-5	0.0 - 2.0	None Found

\* Aluminum Oxide is at least 96% pure, usually containing other metallic oxides as impurities.

\*\* Free Phenol [108-95-2](PEL & TLV:5ppm) and free Formaldehyde [50-00-0](PEL:0.75ppm, TLV:1ppm)

^ Present only in fiberglass reinforced wheels.

~ Substance is a compound and/or mixture.

# Maximum Fluoride Content as F is 9.05%. Fluoride may be released in trace amounts under normal use.

! As Total Dust, 5mg/M3 respirable fraction.



#### **4. FIRST AID MEASURES**

##### *General Measures*

Under normal handling and use, exposure to solid forms of this material present few health hazards. Subsequent operations such as grinding or melting may produce potentially hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

##### *Inhalation*

Classified as a nuisance dust. Remove to fresh air. Provide artificial respiration as needed and obtain medical assistance.

##### *Skin Contact*

Wash affected areas with soap and water. Obtain medical assistance if aggravated skin conditions persist.

##### *Eye Contact*

Irritant. Treat as a foreign body in the eye. Flush with large amounts of clean water for at least 15 minutes. If irritation persists, obtain medical assistance.

##### *Ingestion*

Obtain medical assistance. Contact poison control center.

##### *Most Important Symptoms/Effect, Acute and Delayed*

No applicable data available

##### *Indication of Any Immediate Medical Attention and Special Treatment Needed*

No applicable data available

##### *Signs and Symptoms of Exposure*

##### *Inhalation*

Dusts may cause irritation to nose, throat or lungs resulting in coughing or shortness of breath. Continued excessive exposure to abrasive grains may affect breathing capacity. Signs of excessive exposure might include deposits of material in the eyes, ears, nasal passages and irritation of the mucous membranes.

##### *Skin Contact*

Dust may irritate the skin on some individuals

##### *Eye Contact*

Dusts may irritate eyes.

##### *Ingestion*

Non-toxic, but ingestion should be avoided.



## **5. FIRE FIGHTING MEASURES**

### *Extinguishing Media*

Water, foam, or carbon dioxide.

### *Fire Fighting Procedure*

None needed.

### *Special Protective Equipment*

Full face, self-contained breathing apparatus and full protective clothing when necessary. Toxic fumes are evolved on burning. Breathing apparatus should be worn to fight serious fires in confined spaces.

### *Hazardous Combustion Products*

Fumes from burning cured Phenol/Formaldehyde resin may contain trace amounts of formaldehyde which can cause eye, nose and throat irritation. The short term exposure limit for formaldehyde is 2ppm. LEL: Not Applicable UEL: Not Applicable

## **6. ACCIDENTAL RELEASE MEASURES**

### *Personal Precautions, Protective Equipment and Emergency Procedures*

Minimize generation of dust. Use appropriate protective equipment to avoid inhalation and eye contact if dust is generated.

### *Environmental Precautions*

Notify authorities as required by local, state and federal regulations.

### *Methods for Clean Up*

Pick up, sweep up or vacuum any dust, and place in a container for disposal.

### *Reference to Other Sections*

Refer to Section 8 for personal protective equipment and Section 13 for proper disposal.

## **7. HANDLING AND STORAGE**

### *Precautions for Safe Handling*

Use only with adequate ventilation. Avoid breathing dust. Observe recommended operating speeds. Wash thoroughly after handling and use, especially before eating, drinking or smoking. Consider potential exposure to components of the base materials or coatings being brushed, machined or ground. Refer to OSHA's substance specific standards for additional work practice requirements where applicable.

### *Conditions for Safe Storage*

Store in a cool, dry location as per ANSI B7.1



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Ingredients</i>	<i>OSHA / PEL</i>	<i>ACGIH / TLV</i>
Aluminum Oxide*	15mg/M3	10mg/M3
Silicon Carbide	15mg/M3	10mg/M3
Zirconium Oxide	5mg/M3 (as Zr)	5mg/M3 (as Zr)
Phenol/Formaldehyde Binder **	None Found	None Found
Fiberglass ^	15mg/M3	10mg/M3
Graphite	15mppcf	2mg/M3 (Dust)
Calcium Oxide	5mg/M3	2mg/M3
Fluorides ~#	2.5mg/M3 (as F)	2.5mg/M3 (as F)
Calcium Compounds~	15mg/M3	10mg/M3
Sulfates & Sulfides~	15mg/M3	10mg/M3
Rubber	None Found	None Found

*Note: Consider also components of base materials and coatings being worked.*

### *Engineering Controls*

General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.

### *Respiratory Protection*

Use an approved respirator when airborne contaminant levels exceed TLVs and PELs as per OSHA 29 CFR 1910.134 or 139 (Respirators), and OSHA 29 CFR 1910.1000 (Air Contaminants).

### *Hand Protection*

Cloth or leather gloves recommended / required. (Arm sleeves or barrier creams may be useful in the prevention of dermatitis).

### *Eye Protection*

Wear eye protection as per ANSI Z87.1 and OSHA 29 CFR 1910.33.

### *Skin Protection*

Protective clothing as needed to prevent contamination of personal clothing.

### *Hearing Protection*

Hearing protection may be required as per OSHA 29 CFR 1910.95 (Hearing Protection) during normal use.

### *Ventilation*

Good local exhaust is essential for dry grinding operations as per ANSI Z88.2, OSHA 29 CFR 1910.94 (Ventilation).



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Characteristic</i>	<i>Value</i>
Appearance	Porous Solid
Form	Solid in various forms
Color	Light or Medium Gray, Brown, Black or Maroon Colored
Odor	Odorless
Odor Threshold	Not determined
pH	N/A
Melting Point	NOT LISTED
Boiling Point	No data
Flash Point	N/A
Evaporation Rate	N/A
Flammability	NOT LISTED
Upper Flammable Limit	No data
Lower Flammable Limit	No data
Vapor Pressure	No data
Vapor Density	N/A
Specific Gravity	2.0 – 4.0
Solubility in H <sub>2</sub> O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	N/A



## **10. STABILITY AND REACTIVITY**

### *Reactivity*

Stable at normal ambient temperature and pressure.

### *Chemical Stability*

Stable at normal ambient temperature and pressure.

### *Conditions to Avoid*

No Data

### *Incompatible Materials*

No applicable data available

### *Hazardous Decomposition Products*

During use, dust and decomposing organic fumes are generated which may contain trace amounts of phenol, formaldehyde and fluorides. In most cases, the material removed from the work piece will be significantly greater than the grinding wheel components. Coolants or other surface residues may produce other decomposition products.

### *Hazardous Polymerization*

Polymerization will not occur.

## **11. TOXICOLOGICAL INFORMATION**

### *Likely Route of Exposure*

Inhalation and eyes..

### *Eyes*

Dust may cause eye irritation. Dust particles may cause abrasive injury to the eyes.

### *Skin Contact*

None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

### *Inhalation*

Dust may cause respiratory irritation. May be harmful by inhalation. Prolonged inhalation may cause lung damage.

### *Ingestion*

None expected under normal use conditions. May be harmful if swallowed.

### *Acute Toxicity*

No data

### *Reproductive Toxicity*

Not expected to cause reproductive toxicity.

### *Carcinogenicity*

None of the components of this product are listed as a carcinogen or potential carcinogen by OSHA, NTP or IARC.



*Germ Cell Mutagenicity*

No applicable data available

*Repeat Exposure*

No applicable data available

*Further Information*

No applicable data available

*Carcinogenicity*

No applicable data available

**12. ECOLOGICAL INFORMATION**

*Toxicity*

No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

*Persistence and Degradability*

No data

*Bio-Accumulative Potential*

No data

*Mobility in Soil*

No data

*Results of PBT and vPvB Assessment*

Not applicable

*Other Adverse Effects*

No data

**13. DISPOSAL CONSIDERATIONS**

*General*

No applicable data available

*Packaging*

No applicable data available

**14. TRANSPORTATION INFORMATION**

*DOT/ADR/IATA/IMDG Regulations:*

Not regulated

*UN Number:*

N/A

*UN Proper Shipping Name:*

N/A





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*Transport Hazard Class:*

N/A

*Packing Group:*

N/A

*Marine Pollutant:*

N/A

*Special Precautions:*

N/A

## **15. REGULATORY INFORMATION**

*US Regulations*

*California Proposition 65*

No applicable data available

*PA Right to Know Regulated Chemical(s)*

No applicable data available

*NJ Right to Know Regulated Chemical(s)*

No applicable data available

*TSCA Listed*

All components are listed.

*Regulation (EC) No 1272/2008 (CLP)*

N/A

*Chemical Safety Assessment*

A chemical safety assessment has not been carried out.

## **16. OTHER INFORMATION**

*Revision Number* 1

*Supersedes Date* 2015/11/11

*Prepared By*

Osborn

*Manufacturer Disclaimer*

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Osborn shall not be held liable for any damages resulting from handling or from contact with the above product.