



Safety Data Sheet
Date Issued – Nov 11th, 2015

Osborn SDS Number: AB-02
Grinding Cutoff Wheels

Safety Data Sheet

Reinforced Resinoid Bonded Abrasive Wheel

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION:

Reinforced Resinoid Bonded Abrasive Wheel

GENERAL USE:

For material removal. See ANSI B7.1-2000

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

Wear Respirator, eye protection, and protective clothing when using product. Product will produce sparks and debris when in use, avoid using product near reactive or flammable. Substances or electrical equipment. Discard if product comes in contact with water

GHS Label requirements

Pictogram

None

Signal Word

None

Respiratory

Wheel dust is a respiratory irritant

Skin

Wheel dust and fiberglass reinforcement is a skin irritant



Ingestion

Acute product toxicity unknown

Eyes

Wheel Dust is an eye irritant

Chronic

Potential Chronic Effects include skin sensitization and restricted breathing

Hazard Statement

This product is classified as non-hazardous under OSHA HCS 29 CFR 1910.1200

3. COMPOSITION/INGREDIENT INFORMATION

<i>Ingredients</i>	<i>CAS</i>	<i>Weight %</i>
Aluminum Oxide	1344-28-1	60 - 80
Silicon Carbide	409-21-2	0-70
Zirconium Oxide	1314-23-4	0 - 12
Calcium Hydroxide	1305-62-0	0-1
Barium Sulfate	7727-43-7	0-10
Iron Sulfide	12068-85-8	0-18
Alkali Aluminum Fluorides	15096-52-3/ 60304-36-1	0-15
Cured Phenolic Resin	N/A	0 - 15
Glass Fiber	N/A	0 - 5
Steel	N/A	0.1 - 1
Carbon Black	N/A	Trace
Zinc	N/A	N/A

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

Terminate exposure and remove to fresh air. Obtain medical assistance.



Skin Contact

Terminate exposure and remove to fresh air. Obtain medical assistance

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.

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

Acute, may cause coughing and shortness of breath during grinding; eye and skin irritation

5. FIRE FIGHTING MEASURES

Extinguishing Media

Water or carbon dioxide.

Fire Fighting Procedure

None needed.

Special Protective Equipment

Consult NFPA or CFPD procedures.

Hazardous Combustion Products

This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.

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

Avoid damage to wheel. Do not drop. Always handle in accordance with ANSI B7.1. Always use in accordance with ANSI Z43.1 and OSHA 1910.215. Do not use dropped or damaged wheels. Do not use without machine guard in place. Do not exceed maximum RPM on wheel. Use only with adequate ventilation. Avoid breathing dust. 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	N/A	10mg/m ³
Silicon Carbide	N/A	10mg/m ³
Zirconium Oxide	N/A	10mg/m ³
Calcium Hydroxide	N/A	5mg/m ³
Barium Sulfate	5mg/m ³	10mg/m ³
Iron Sulfide	N/A	10mg/m ³
Alkali Aluminum Fluorides	2.5mg/m ³	2.5mg/m ³ (as F)
Cured Phenolic Resin	N/A	N/A
Glass Fiber	5mg/m ³	10mg/m ³
Carbon Black	3.5mg/m ³	3.5mg/m ³

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

Respiratory Protection

OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134 or European Standard EN 149.

Hand Protection

Leather gloves.

Eye Protection

Protective eyewear such as safety glasses or face shield. Refer to OSHA 29 CFR 1910.133.



Skin Protection

Leather apron, chaps, or shoe coverings to shield from heavy spark showers in operation.

Hearing Protection

Hearing protection such as approved ear muffs or ear plugs. Refer to OSHA 29 CFR 1910.95.

Ventilation

Engineering Controls recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.

Wash with soap and water after handling and grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Characteristic</i>	<i>Value</i>
Appearance	Dark colored Solid
Form	Solid in various forms
Color	Dark
Odor	Burning plastic odor in use
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 ₂ O	Insoluble
Partition Coefficient (n-octanol/water)	Not determined



Auto-Ignition Temperature	No data
Decomposition Temperature	~800 F (427 C)
Viscosity	N/A

10. STABILITY AND REACTIVITY

Reactivity

Stable at normal ambient temperature and pressure; avoid excessive moisture and humidity, temperature extremes and contact with acids or solvents.

Chemical Stability

Stable at normal ambient temperature and pressure; avoid excessive moisture and humidity, temperature extremes and contact with acids or solvents.

Conditions to Avoid

No Data

Incompatible Materials

Strong acids Strong bases, Strong oxidizing agents

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

<i>Chemical</i>	<i>Route of Exposure</i>	<i>Acute LD50</i>
Aluminum Oxide	Oral	>5000 mg/kg (rat)
Zirconium Oxide	Oral	>8800 mg/kg (mouse)
Glass Fiber	N/A	N/A
Alkali Aluminum Fluorides	Oral	>5000 mg/kg (rat)
Cured Phenolic resin	N/A	N/A
Carbon black	Oral	8000 mg/kg (rat)



Silicon Carbide	N/A	N/A
Calcium Hydroxide	Oral	7340 mg/kg (rat)
Barium Sulfate	N/A	N/A
Iron Disulfide	N/A	N/A

Likely Route of Exposure

No applicable data available

Eyes

Dust or fumes may cause eye irritation.

Skin Contact

Grinding wheel may cause abrasions; dust may cause skin irritation.

Inhalation

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

Ingestion

Can cause stomach pain, vomiting and diarrhea.

Acute Toxicity

No data

Reproductive Toxicity

Unknown.

Carcinogenicity

Unknown.

Germ Cell Mutagenicity

Unknown.

Repeat Exposure

No applicable data available

Further Information

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

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



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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.