



IBS, Inc.

SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR
(800) 678-1906 www.industrialbolt.com

SAFETY DATA SHEET

Cut-Off Wheels & Grinding Wheels

SECTION 1 - Identification of the Product and Company

- 1.1 Product Name Reinforced Resinoid Bonded Abrasive Wheel
- 1.2 Product Use For material removal. See ANSI B7.1-2000
- 1.3 Company Details: **IBS, Inc.**
- Address: 740 Clay St NW
Auburn, WA 98001
- Phone: 1-800-678-1906
- Fax: 1-253-804-8665

SECTION 2 - Hazard Information

2.1 Precautionary statements

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

2.2 Description of Hazards

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

SECTION 3 - Composition

<u>Ingredient</u>	<u>Formula</u>	<u>% Weight</u>	<u>Cas #</u>
Aluminum Oxide	Al ₂ O ₃	60 - 80	1344-28-1
Silicon Carbide	SiC	0-70	409-21-2
Zirconium Oxide	ZrO ₂	0 - 12	1314-23-4
Calcium Hydroxide	Ca(OH) ₂	0-1	1305-62-0
Barium Sulfate	BaSO ₄	0-10	7727-43-7
Iron Sulfide	FeS ₂	0-18	12068-85-8
Alkali Aluminum Fluorides	-	0-15	15096-52-3/ 60304-36-1
Cured Phenolic Resin	-	0 - 15	N/A
Glass Fiber	-	0 - 5	N/A
Steel	-	0.1 - 1	N/A
Carbon Black	-	trace	N/A
Zinc	Zn	N/A	N/A

SECTION 4-First Aid

4.1 First Aid for exposure

Dust Inhalation:	Terminate exposure and remove to fresh air. Obtain medical assistance.
Ingestion:	Obtain medical assistance.
Absorption:	N/A
Skin contact:	Terminate exposure and remove to fresh air. Obtain medical assistance.
Eye:	Flush eyes with water.

4.2 Signs and Symptoms of Exposure

Acute:	May cause coughing and shortness of breath during grinding. Skin irritation. Eye irritation.
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SECTION 5 - Fire Fighting Measures

5.1 Flammable Properties:	None
Means Of Extinction:	Water or carbon dioxide
Special Fire Fighting Procedures:	Consult NFPA or CFPA procedures
Unusual Fire or Explosion Hazards:	None

SECTION 6 - Accidental Release Measures

Normal clean up procedures should be used if material is released
Use of gloves to clean up spent wheels is recommended

SECTION 7- Storage, Handling and Use Procedures

Handling:	Avoid damage to wheel. Do not drop. Always handle in accordance with ANSI B7.1.
Use:	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.
Storage:	Avoid excessive temperatures in storage. Store in a dry area.

SECTION 8- Personal Protective Control Measures

8.1 Control Measures

Protection:	Requirements and Referrals.
Respiratory:	OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134 or European Standard EN 149.
Ventilation:	Engineering Controls recommended. See ANSI Z43.1. Refer to OSHA 29 CFR 1910.94.
Protective Gloves:	Leather gloves.
Eye Protection:	Protective eyewear such as safety glasses or face shield. Refer to OSHA 29 CFR 1910.133.
Hearing Protection:	Hearing protection such as approved ear muffs or ear plugs. Refer to OSHA 29 CFR 1910.95.
Body Protection:	Leather apron, chaps, or shoe coverings to shield from heavy spark showers in operation.
Hygienic Practices:	Wash with soap and water after handling and grinding.

8.2 Exposure

<u>Chemical</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aluminum C	NA	10mg/m ³
Silicon Carb	NA	10mg/m ³
Zirconium C	NA	10mg/m ³
Calcium Hyr	NA	5mg/m ³
Barium	5mg/m ³	10mg/m ³
Iron Dis	NA	10mg/m ³
Alkali Aluminum Fluorides	2.5mg/m ³	2.5mg/m ³ (As F)
Phenolic Re	N/A	N/A
Fiber Gl	5mg/m ³	10mg/m ³
Carbon	3.5 mg/m ³	3.5 mg/m ³

SECTION 9- Physical/Chemical Characteristics

Boiling Point	N/A	(H ₂ O=1, Specific Gravity	2 - 4
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water	Insoluble	Appearance	Dark colored solid
Lower And Upper Explosion Limits	N/A	Odor	burning plastic odor in use
Flammable Limits	N/A	Degradation Temperature	~ 800 F (427 C)
Flash Point	N/A		

SECTION 10 - Stability and Reactivity Data

Stable - Avoid excessive moisture and humidity, temperature extremes and contact with acids or solvents

Not incompatible with any materials

Hazardous Polymerization will not occur

Dust and organic fumes are generated in use

SECTION 11 - Toxicological Data

11.1 Acute Toxicological Effects

<u>Chemical</u>	<u>Route of Exposure</u>	<u>Acute LD50</u>
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

11.2 Toxicological Effects

Dust Inhalation	Coughing and shortness of breath, aggravation, decreased lung capacity of medical conditions such as asthma or emphysema
Ingestion	Can cause stomach pain, vomiting and diarrhea
Absorption	N/A
Skin contact	Grinding wheel may cause abrasions Dust may cause skin irritation
Eye	Dust or fumes may cause eye irritation
Carcinogenicity	Unknown
Mutagenicity	Unknown
Reproductive Effects	Unknown

Section 12-Ecological Information

No Data Available

Section 13-Disposal Considerations

Dispose in accordance to local and federal regulations

Section 14-Transport Information

Not regulated as a hazardous material for transport

Section 15-Regulatory Information

No Data Available

Section 16-Other Information

SDS Revision Date: November 1, 2014
Reason for Update: Mandated Update
Preparation By: IBS, Inc.

COMPANY USE

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