

FLEXOVIT USA INC.

SAFETY DATA SHEET

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 B7.1-2010
1.3 Company Details:	Flexovit Abrasives Inc.
Address:	1305 Eden-Evans Center Rd. Angola, NY 14006
Phone:	1-716-549-5100
Fax:	1-716-549-7932

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

Wheel dust is a respiratory irritant
Wheel dust and fiberglass reinforcement is a skin irritant

Fiberglass

Fiberglass in wheels have a diameter larger than 10 um and are considered non-respirable.

Phenol-formaldehyde Coating

Chronic health effect: Excessive exposure can cause skin sensitization and decreased lung capacity

Eye Contact: Can cause eye irritation

Skin Contact: Can cause skin irritation

Inhalation can cause irritation to mucous membranes and respiratory tracts.

Ingestion: Coating contains cryolite. Large doses of cryolite can cause severe nausea, vomiting, diarrhea, abdominal burning and cramp-like pains.

SECTION 3 - Composition

<u>Ingredient</u>	<u>Formula</u>	<u>% Weight</u>	<u>OSHA Regulate</u>	<u>Cas #</u>
Aluminum Oxide	Al ₂ O ₃	60 - 80	No	1344-28-1
Silicon Carbide	SiC	0-70	No	409-21-2
Zirconium Oxide	ZrO ₂	0 - 12	No	1314-23-4
Calcium Hydroxide	Ca(OH) ₂	0-1	No	N/A
Barium Sulfate	BaSO ₄	0-10	No	N/A
Iron Sulfide	FeS ₂	0-18	No	1317-37-9
Alkali Aluminum Fluorides	-	0-15	No	16984-48-8
Cured Phenolic Resin	-	0 - 15	No	9003-35-4
Glass Fiber	-	0 - 5	No	N/A
Steel	-	0.1 - 1	No	N/A
Carbon Black	-	trace		
Zinc	Zn	NA	No	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.
Chronic:	Decreased lung capacity

SECTION 5 - Fire Fighting Measures

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

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

- 7.1 Handling: Avoid damage to wheel. Do not drop. Do not use a wheel that has been damaged. Always handle in accordance with ANSI B7.1.
- 7.2 Storage: Avoid excessive temperatures in storage. Store in a dry area. Discard if wheel gets wet.
- 7.3 Use: Use in accordance with regulations and standards

SECTION 8- Personal Protective Control Measures

8.1 Exposure Limits

<u>Chemical</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aluminum Oxide	NA	10mg/m ³
Silicon Carbide	NA	NA
Zirconium Oxide	NA	10mg/m ³
Calcium Hydroxide	NA	5mg/m ³
Barium Sulfate	0.5mg/m ³	10mg/m ³
Iron Disulfide	NA	NA
Fluorides	2.5mg/m ³	2.5mg/m ³
Phenolic Resin	5 P.P.M.	5 P.P.M.
Fiber Glass	15mg/m ³	10mg/m ³
carbon black	3.5 mg/m ³	3.5 mg/m ³

8.2 Personal protection requirements and referrals

Respiratory: OSHA/NIOSH approved respirator. See OSHA 29 CFR 1910.134/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.

SECTION 9- Physical/Chemical Characteristics

Boiling Point

N/A

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		Slight	Appearance	Dark colored solid
Lower And Upper Explosion Limits		N/A	Odor	plastic
Flammable Limits		N/A	Degradation Temperature	~ 800 F (427 C)
Flash Point		N/A		

SECTION 10 - Stability and Reactivity Data

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

Not incompatible with any materials

No known hazardous reactions will occur

At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated.

SECTION 11 - Toxicological Data

11.1 Component information

<u>Chemical</u>	<u>Long term effects</u>	<u>Short term effects</u>
Aluminum Oxide	N/A	skin, respiratory irritation
Zirconium Oxide	N/A	skin, respiratory irritation
Glass fiber	N/A	skin, respiratory irritation
Alkali aluminum fluorides	fluorosis	skin, respiratory irritation
Cured Phenolic resin*	N/A	N/A
carbon black	N/A	skin, eye, respiratory irritation
Silicon Carbide	N/A	skin, eye, respiratory irritation
Calcium Hydroxide	Contact Dermatitis	skin eye,
Barium Sulfate	Baritosis	skin, eye, respiratory irritation
Iron Disulfide	N/A	skin, eye, respiratory irritation

* Cured phenolic resin contains trace amounts of formaldehyde, a recognized carcinogen by US HTP

11.2 Route(s) of Entry and symptoms of exposure

See section 4.2

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: September 1, 2017
Reason for Update: Mandated Update
Preparation By: FlexOvit USA

COMPANY USE

The information and recommendations set forth herein are taken from sources and references believed to be accurate and complete as of the date hereof. However, Brilliant Abrasives makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.