

# FLEXOVIT USA INC.

## SAFETY DATA SHEET

### SECTION 1 - Identification of the Product and Company

- 1.1 Product Name** Resin Cupstones with and without Steelback
- 1.2 Product Use** Removal of material various metallic parts such as castings, forgings and weldments.
- 1.3 Company Details: Flexovit Abrasives Inc.**
- Address: 1305 Eden-Evans Center Rd.  
Angola, NY 14006
- Phone: 1-716-549-5100
- Fax: 1-716-549-4078

### SECTION 2 - Hazard Information

#### 2.1 Precautionary statements

Wear all necessary protective equipment such as:

1. Respirator to prevent dust inhalation
2. Eye and face protection
3. Hearing protection
4. Gloves
5. Other protective items such as heavy duty aprons

Product will produce sparks and debris when in use. Avoid using product near reactive or flammable substances or electrical equipment.

For products not specifically designed and designated for use in wet environments, do not use wheels that have been submerged or substantially saturated with water.

Inspect all products before use to assure that they have not been damaged. Discard damaged wheels.

Use and store all grinding wheels in accord with "ANSI B7.1 Safety Requirements for the Use, Care, & Protection of Abrasive Wheels".

#### Fiberglass Reinforcing

The fiberglass used in wheels has a diameter larger than 10 um and is considered non-respirable.

#### Dust from Grinding

Chronic: Dust from grinding may cause skin sensitization and airway obstruction.

Eye contact: Immediately flush eyes with water. Get medical attention if situation persists.

Inhalation: If dust is inhaled, remove affected person to fresh air. If symptoms persist, get medical attention.

#### 2.2 Description of Hazards

Respiratory irritant

May cause temporary mechanical irritation  
of the nose, throat and respiratory tract.

Eye and skin irritant

#### Hazard Rating

Source: NFPA

Health: 1

Flammability: 0

Reactivity: 0

### SECTION 3 - Composition

<u>Ingredient</u>	<u>Formula</u>	<u>% Weight</u>	<u>OSHA Regulated</u>	<u>Cas #</u>
Aluminum Oxide (non-fibrous)		0-95	No	1344-28-1
Silicon Carbide		0-95	No	409-21-2
Zirconium Dioxide		0-80	No	1314-23-4
Calcium Oxide		0-10	No	1305-78-8
Iron Disulfide		0-20	No	12068-85-8
Inorganic Florides		0-20	No	N/A
Cured Phenolic Resin		2-15	No	9003-35-4
Fiber Glass		0-15	No	65997-17-3
Carbon Black		Trace		
Paraffin		0-2	No	8002-74-2

Additionally, there may be steel parts imbedded in the product.

### SECTION 4-First Aid

#### 4.1 First Aid for exposure

1. Dust Inhalation: Remove to fresh air. Obtain medical assistance if necessary.
2. Ingestion: Accidental ingestion is unlikely. Obtain medical assistance.
3. Contact: Wash affected areas with soap and water. Obtain medical assistance if necessary.
4. Eye: Immediately flush eyes with plenty of water. Obtain medical assistance if necessary.

#### 4.2 Signs and Symptoms of Exposure

Acute Symptoms while grinding:

1. Dust Inhalation: May cause coughing and shortness of breath.
2. Contact: Serious skin irritation.
3. Eye: Dust may irritate eyes

### SECTION 5 - Fire Fighting Measures

- 5.1 Means Of Extinction: Use any extinguishing media appropriate for the surrounding fire.
- 5.2 Unusual Fire or Explosion Hazards: None  
Flammable Properties: Non-flammable
- 5.3 Special Fire Fighting Procedures: Consult NFPA or CFPA procedures

### SECTION 6 - Accidental Release Measures

Normal clean up measures should be used. Use of gloves is recommended.

## SECTION 7- Storage, Handling and Use Procedures

- 7.1 Handling:** Always handle and store grinding wheels in a careful manner. Avoid damage to the wheel. Do not drop. Do not use a wheel that is or might be damaged. Always handle in accord with ANSI B7.1.
- 7.2 Storage:** Avoid excessively high or low temperatures in storage. Store in a dry place. See ANSI B7.1 for more information.
- 7.3 Use:** Always use in accordance with ANSI Z43.1 and OSHA 1910.215. Do not use dropped or damaged wheels. Always use with proper size and type of flange(s). (See ANSI B7.1) Always use machine guards where required by OSHA or ANSI B7.1. Do not use without the machine guard in place. Do not use on grinders that exceed the maximum RPM on the wheel. Use in accord with the safety instructions packed with the product.

## SECTION 8- Personal Protective Control Measures

### 8.1 Exposure limits

<u>Chemical</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aluminum Oxide	N/A	10mg/m <sup>3</sup>
Silicon Carbide	N/A	N/A
Zirconium Dioxide	N/A	10mg/m <sup>3</sup>
Calcium Hydroxide	N/A	5mg/m <sup>3</sup>
Iron Sulfide	N/A	2mg/m <sup>3</sup>
Fluorides	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>
Phenolic Resin	5 P.P.M.	5 P.P.M.
Fiber Glass	15mg/m <sup>3</sup>	15mg/m <sup>3</sup>
Carbon Black	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>
Paraffin	N/A	2mg/m <sup>3</sup>

### 8.2 Personal 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:** Properly fitting leather protective gloves.
- Eye Protection:** Protective eyewear such as safety glasses and face shields. 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	Trace	Appearance	Various shades of a brown solid
Lower And Upper Explosion Limit:	N/A	Odor	May give off a burning plastic odor in use
Flammable Limits	N/A	Degradation Temperature	Approx 800F (427C)
Flash Point	N/A		

### SECTION 10 - Stability and Reactivity Data

Chemical Stability: Stable under normal conditions. Avoid excessive moisture and humidity, temperature extremes and contact with acids or solvents.

Hazardous Polymerization: Hazardous Polymerization will not occur.

Special Decomposition Products: In use, dust and decomposing odors may be generated in most cases. The material removed from workplace part will be significantly greater than the grinding wheel components.

### SECTION 11 - Toxicological Data

#### 11.1 Component information

<u>Chemical</u>	<u>Short term effects</u>	<u>Long term effects</u>	<u>Carcinogen</u>
Aluminum Oxide	skin, respiratory irritation	N/A	No
Silicon Carbide	skin, respiratory irritation, eye irritation ingestion causes pain	N/A	No
Zirconium Oxide	skin, respiratory irritation	N/A	No
Calcium Hydroxide	vomiting, diarrhea	Contact Dermatitis	No
Iron Sulfide	skin, respiratory irritation	N/A	No
Florides	skin, respiratory irritation	Fluorosis	No
Cured Phenolic Resin	N/A	N/A	may contain trace amounts of formaldehyde
Glass fiber	skin, respiratory irritation	N/A	No
Carbon Black	skin, respiratory irritation	N/A	No
Paraffin	fumes, skin, respiratory irritation	N/A	No

#### 11.2 Route(s) of Entry and symptoms of exposure

Dust Inhalation	Coughing and shortness of breath. Aggravation of existing pulmonary medical conditions.
Ingestion	N/A
Absorption	N/A
Skin contact	Grinding wheel may cause abrasions. Dust may cause skin irritation.
Eye	Dust or fumes may cause eye irritation.

**Section 12-Ecological Information**

No Data Available

**Section 13-Disposal Considerations**

Dispose in accord with 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**

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**COMPANY USE**

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