# SAFETY DATA SHEET

## SECTION 1 - Identification of the Product and Company

1.1 Product Name: Flap Disc, Type 29 and 27 FIBERGLASS BACK  
1.2 Product Use: For light material removal, blending and polishing SEE ANSI B7.1-2010  
1.3 Company Details: Flexovit USA 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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Formula</th>
<th>% Weight</th>
<th>OSHA Regulated</th>
<th>Cas #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>Al₂O₃</td>
<td>15-30</td>
<td>No</td>
<td>1344-28-1</td>
</tr>
<tr>
<td>Zirconium Oxide</td>
<td>ZrO₂</td>
<td>0-15</td>
<td>No</td>
<td>1314-23-4</td>
</tr>
<tr>
<td>Cured Phenolic resin</td>
<td></td>
<td>0-20</td>
<td>No</td>
<td>15096-52-3</td>
</tr>
<tr>
<td>Cryolite</td>
<td>Na₃AlF₆</td>
<td>0-15</td>
<td>No</td>
<td>9003-35-4</td>
</tr>
<tr>
<td>Cured epoxy resin</td>
<td></td>
<td>15-20</td>
<td>No</td>
<td>68609-97-2</td>
</tr>
<tr>
<td>Cotton Cloth</td>
<td></td>
<td>13-17</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>plastic/aluminum backing</td>
<td></td>
<td>39-50</td>
<td>No</td>
<td>65997-17-3</td>
</tr>
<tr>
<td>Fiberglass backing</td>
<td></td>
<td>39-50</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Zinc</td>
<td>Zn</td>
<td>0-50</td>
<td>No</td>
<td>7440-66-6</td>
</tr>
</tbody>
</table>

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 CFPA procedures
SECTION 6 - Accidental Release Measures

Normal clean up procedures should be used if material is released.
Gloves and a respirator are recommended to clean up used material.

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.

SECTION 8 - Personal Protective Control Measures

8.1 Exposure limits

<table>
<thead>
<tr>
<th>Chemical</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Zirconium Oxide</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>cured epoxy resin</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cotton Cloth</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>plastic/aluminum backing</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Fiberglass backing</td>
<td>15 mg/m³ (total dust)</td>
<td>5 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Cryolite</td>
<td>2.5 mg/m³</td>
<td>2.5 mg/m³</td>
</tr>
<tr>
<td>Cured Phenolic resin</td>
<td>5 ppm</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

8.2 Personal protection requirements and referrals

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Vapor Pressure $\text{(mm Hg.)}$</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density $(\text{AIR}=1)$</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate $(\text{Butyl Acetate}=1)$</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Slight</td>
</tr>
<tr>
<td>Appearance</td>
<td>Dark colored solid</td>
</tr>
<tr>
<td>Lower And Upper Explosion Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor</td>
<td>Plastic</td>
</tr>
<tr>
<td>Degradation Temperature</td>
<td>~ 800 F (427 C)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Short term effects</th>
<th>Long term effects</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>skin, respiratory irritation</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Zirconium Oxide</td>
<td>skin, respiratory irritation</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>cured epoxy resin</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Cotton Cloth</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>plastic/aluminum</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>skin, respiratory irritation</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>Cryolite</td>
<td>skin and fluoride</td>
<td>fluorosis</td>
<td>No</td>
</tr>
<tr>
<td>Cured Phenolic resin</td>
<td>N/A</td>
<td>N/A</td>
<td>contains trace formaldehyde</td>
</tr>
</tbody>
</table>

#### 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

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