SAFETY DATA SHEET
630 Conductive Epoxy Novolac Coating- Part A (Pigmented)

1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>630-COND-000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>630 Conductive Epoxy Novolac Coating- Part A (Pigmented)</td>
</tr>
<tr>
<td>Name: Manufacturer</td>
<td>630 Conductive Epoxy Novolac Coating- Part A (Pigmented)</td>
</tr>
</tbody>
</table>

**Information**

- **Company Name:** Epoxy Systems, Inc.
  20774 W Pennsylvania Ave
  Dunnellon, Florida 34431
- **Phone Number:** +1 (352) 489-1666
- **Emergency Contact:** PERS (800) 663-8253
- **Alternate Emergency Contact:** (International) +1 (801) 629-0667
- **Intended Use:** Industrial floor coatings.

2. Hazards Identification

**GHS Classification**

- **Skin Corrosion/Irritation, Category 2**
- **Serious Eye Damage/Eye Irritation, Category 2B**
- **Skin Sensitization, Category 1B**
- **Aquatic Toxicity (Acute), Category 2**
- **Aquatic Toxicity (Chronic), Category 2**

**Placard**

- Exclamation point
- none

**Key word**

- Warning
- Warning
- Warning
- None
- Pollution

**GHS hazard phrase**

- Causes skin irritation
- Causes eye irritation
- May cause an allergic skin reaction
- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

**GHS Hazard Phrases**

- H315+320 - Causes skin and eye irritation.
- H317 - May cause an allergic skin reaction.
- H401 - Toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases**

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P261 - Avoid breathing dust/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P362+364 - Take off contaminated clothing and wash it before reuse.
- P273 - Avoid release to the environment.

**GHS Response Phrases**

- P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention.
- P362 - Take off contaminated clothing.
- P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313 - If eye irritation persists, get medical advice/attention.
- P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P314 - Get medical attention/advice if you feel unwell.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

GHS format
P311 - Call a POISON CENTER or doctor/physician.
P391 - Collect spillage.

GHS Storage and Disposal Phrases
P501 - Dispose of contents/container to local, state, and federal authority requirements.

Potential Health Effects (Acute and Chronic)
Causes skin and eye irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation
May cause respiratory irritation.

Skin Contact
Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Eye Contact
Causes eye irritation.

Ingestion
May be harmful if swallowed.

Recommended Exposure Limits
Not established.

Medical Conditions Generally Aggravated By Exposure
Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:
This material is classified as hazardous under OSHA regulations.

### 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Phenol-Formaldehyde Polymer</td>
<td>28064-14-4</td>
<td>40 - 60 %</td>
</tr>
<tr>
<td>2. Talcum</td>
<td>14807-96-6</td>
<td>10 - 20 %</td>
</tr>
<tr>
<td>3. Benzenemethanol</td>
<td>100-51-6</td>
<td>5.0 - 15 %</td>
</tr>
<tr>
<td>4. Antimony tin oxide complex</td>
<td>NA</td>
<td>1.0 - 5.0 %</td>
</tr>
<tr>
<td>5. Silica</td>
<td>7631-86-9</td>
<td>1.0 - 10 %</td>
</tr>
<tr>
<td>6. Titanium dioxide</td>
<td>13463-67-7</td>
<td>0 - 13 %</td>
</tr>
<tr>
<td>7. Iron oxide</td>
<td>1317-61-9</td>
<td>0 - 13 %</td>
</tr>
<tr>
<td>8. Iron oxide (Fe2O3)</td>
<td>1309-37-1</td>
<td>0 - 13 %</td>
</tr>
<tr>
<td>9. C.I. Pigment Yellow 42</td>
<td>51274-00-1</td>
<td>0 - 13 %</td>
</tr>
<tr>
<td>10. Bisphenol-a based epoxy resin</td>
<td>25068-38-6</td>
<td>0 - 13 %</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

Emergency and First Aid Procedures

In Case of Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact
In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion
If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. For further assistance, contact your local Poison Control Center.
5. Fire Fighting Measures

Flash Pt: > 200.00 C
Explosive Limits: LEL: NE UEL: NE
Autoignition Pt: No data available.

Fire Fighting Instructions
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards
Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Hazardous Combustion Products
In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Phenolics.

Suitable Extinguishing Media
Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
Do not use a direct water stream, which may spread fire.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.
Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

Protective Precautions, Protective Equipment and Emergency Procedures
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions
Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Hazard Label Information:
Avoid contact with skin and eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist.
Store in a closed container.

Precautions To Be Taken In Handling
Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken In Storing
Keep container tightly closed in a dry and well-ventilated place.

Other Precautions
Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Phenol-Formaldehyde Polymer</td>
<td>28064-14-4</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Talcum</td>
<td>14807-96-6</td>
<td>706 ppm/20 mppcf</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Benzenemethanol</td>
<td>100-51-6</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>5. Silica</td>
<td>7631-86-9</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

GHS format
**Hazardous Components (Chemical Name)**

<table>
<thead>
<tr>
<th>Part A</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Titanium dioxide</td>
<td>13463-67-7</td>
<td>15 (dust) mg/m³</td>
<td>10 mg/m³</td>
<td>No data</td>
</tr>
<tr>
<td>7. Iron oxide</td>
<td>1317-61-9</td>
<td>No data.</td>
<td>No data.</td>
<td>No data</td>
</tr>
<tr>
<td>8. Iron oxide (Fe2O3)</td>
<td>1309-37-1</td>
<td>10 mg/m³</td>
<td>No data.</td>
<td>No data</td>
</tr>
<tr>
<td>9. C.I. Pigment Yellow 42</td>
<td>51274-00-1</td>
<td>No data.</td>
<td>No data.</td>
<td>No data</td>
</tr>
<tr>
<td>10. Bisphenol-a based epoxy resin</td>
<td>25068-38-6</td>
<td>No data.</td>
<td>No data.</td>
<td>No data</td>
</tr>
</tbody>
</table>

**Protective Equipment Summary - Hazard Label Information:**

<table>
<thead>
<tr>
<th>Protective Equipment</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neoprene gloves</td>
<td>Safety glasses, or goggles. Impervious clothing. Chemical resistant boots</td>
</tr>
</tbody>
</table>

**Respiratory Equipment (Specify Type)**

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**Eye Protection**

Safety glasses, or goggles.

**Protective Gloves**

Nitrile rubber and Neoprene are recommended.

**Other Protective Clothing**

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

**Engineering Controls (Ventilation etc.)**

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

**Work/Hygienic/Maintenance Practices**

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Environmental Exposure Controls**

Avoid runoff into storm sewers and ditches which lead to waterways.

### 9. Physical and Chemical Properties

**Physical States:**

- [ ] Gas
- [X] Liquid
- [ ] Solid

**Melting Point:**

NE

**Boiling Point:**

NE

**Decomposition Temperature:**

NE

**Autoignition Pt:**

No data.

**Flash Pt:**

> 200.00 °C Method Used: Pensky-Marten Closed Cup

**Explosive Limits:**

- LEL: NE
- UEL: NE

**Specific Gravity (Water = 1):**

~ 1.367 - 1.379

**Density:**

~ 11.4 - 11.5 LB/GL

**Vapor Pressure (vs. Air or mm Hg):**

NE

**Vapor Density (vs. Air = 1):**

NE

**Evaporation Rate:**

NE

**Solubility in Water:**

NP

**Percent Volatile:**

N.A.
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(Pigmented)

VOC / Volume: NP
HAP / Volume: NP
Saturated Vapor Concentration: NE

Appearance and Odor
Slight odor.
Appearance: Liquid. Various Colors.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

Reactivity
Avoid: acids, alkalis, oxidizing agents.

Conditions To Avoid - Instability
Extreme temperatures.

Incompatibility - Materials To Avoid
Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

Hazardous Decomposition Or Byproducts
Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and phenolics.

Possibility of Hazardous Polymerization:
Will occur [ ] Will not occur [ X ]

Conditions To Avoid - Hazardous Reactions
Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Toxicological Information
Contains: Phenol-Formaldehyde Polymer (28064-14-4)
Oral LD50 >2000 mg/kg  Species: Rat/adult  
Dermal LD50>2000 mg/kg  Species: Rabbit/adult.

Chronic Toxicological Effects
No data available.

Irritation or Corrosion
Skin Irritation. Irritating to eyes. Species: Rabbit.

Hazardous Components (Chemical Name)  CAS #  NTP  IARC  ACGIH  OSHA
1. Phenol-Formaldehyde Polymer  28064-14-4  n.a.  n.a.  n.a.  n.a.
2. Talcum  14807-96-6  n.a.  n.a.  n.a.  n.a.
3. Benzenemethanol  100-51-6  n.a.  n.a.  n.a.  n.a.
4. Antimony tin oxide complex  NA  n.a.  n.a.  n.a.  n.a.
5. Silica  7631-86-9  Known  3  n.a.  n.a.
8. Iron oxide (Fe2O3)  1309-37-1  n.a.  3  A4  n.a.
9. C.I. Pigment Yellow 42  51274-00-1  n.a.  n.a.  n.a.  n.a.
10. Bisphenol-a based epoxy resin  25068-38-6  n.a.  n.a.  n.a.  n.a.

12. Ecological Information

General Ecological Information
Avoid release to the environment. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment
No data available.
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(Pigmented)

Persistence and Degradability
Not readily biodegradable.

Bioaccumulative Potential
No data available.

Mobility in Soil
not reported, unknown.

13. Disposal Considerations

Waste Disposal Method
Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name
(Non-Bulk)
Not Regulated.

(Bulk)
Environmentally hazardous substance, liquid, n.o.s. (EPOXY NOVOLAC RESIN) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

DOT Hazard Class:
9

DOT Hazard Label:
CLASS 9

UN/NA Number:
UN3082

Packing Group:
III

Precautionary Label
May cause skin, eye, and respiratory irritation. May cause sensitization by skin contact. May be harmful if swallowed. Always read Safety Material Data Sheet before use.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name
(Non-Bulk)
Not Regulated.

(Bulk)
Environmentally hazardous substance, liquid, n.o.s. (EPOXY NOVOLAC RESIN) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

UN Number:
3082

Hazard Class:
9 - CLASS 9

Packing Group:
III

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name
Environmentally hazardous substance, liquid, n.o.s. (EPOXY NOVOLAC RESIN) MARINE POLLUTANT.

Note: The presence of a shipping description for a particular mode of transport
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630 Conductive Epoxy Novolac Coating- Part A
(Pigmented)

(ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.

UN Number: 3082
Hazard Class: 9 - CLASS 9
Packing Group: III
IMDG EMS Number: FA, SF
Marine Pollutant: Yes

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name) | CAS # | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110
--- | --- | --- | --- | --- | ---
1. Phenol-Formaldehyde Polymer | 28064-14-4 | No | No | No | No
2. Talcum | 14807-96-6 | No | No | No | No
3. Benzenemethanol | 100-51-6 | No | No | No | No
4. Antimony tin oxide complex | NA | No | No | No | No
5. Silica | 7631-86-9 | No | No | No | No
6. Titanium dioxide | 13463-67-7 | No | No | No | No
7. Iron oxide | 1317-61-9 | No | No | No | No
8. Iron oxide (Fe2O3) | 1309-37-1 | No | No | No | No
9. C.I. Pigment Yellow 42 | 51274-00-1 | No | No | No | No
10. Bisphenol-a based epoxy resin | 25068-38-6 | No | No | No | No

Regulatory Information
SARA Section 311/312: Acute Health Hazard.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer
The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however the Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

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