# SAFETY DATA SHEET
## EPO-TEK H31

## 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>EPO-TEK H31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product No.</td>
<td>EPO-TEK H31</td>
</tr>
<tr>
<td>Identification No.</td>
<td>UN3082</td>
</tr>
<tr>
<td>Identified uses</td>
<td>Adhesive.</td>
</tr>
<tr>
<td>Supplier</td>
<td>Epoxy Technology, Inc.</td>
</tr>
<tr>
<td></td>
<td>14 Fortune Drive</td>
</tr>
<tr>
<td></td>
<td>Billerica, MA 01821</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.epotek.com">www.epotek.com</a></td>
</tr>
<tr>
<td></td>
<td>(978) 667-3805</td>
</tr>
<tr>
<td></td>
<td>(978) 663-9782</td>
</tr>
<tr>
<td></td>
<td>(800) 255-3924</td>
</tr>
</tbody>
</table>

## 2. HAZARD(S) IDENTIFICATION

### Appearance
Paste

### Color
Silver.

### Odor
Mild.

### GHS Pictogram

### Signal Word
Warning

### Hazard Statements

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects.</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

### Precautionary Statements

<table>
<thead>
<tr>
<th>Precautionary Statement</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>P273</td>
<td>Avoid release to the environment.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves/protection/eye protection/face protection.</td>
</tr>
<tr>
<td>P281</td>
<td>Use personal protective equipment as required.</td>
</tr>
<tr>
<td>P305+351+338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>P308+313</td>
<td>IF exposed or concerned: Get medical advice/attention.</td>
</tr>
<tr>
<td>P313</td>
<td>Get medical advice/attention.</td>
</tr>
<tr>
<td>P501</td>
<td>Dispose of contents/container in accordance with local regulations.</td>
</tr>
</tbody>
</table>

### Contains
Resorcinol Diglycidyl Ether

### GHS Classification

| Physical and Chemical Hazards | Not classified. |
| Human health                  | Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351 |
| Environment                   | Aquatic Chronic 2 - H411 |
Human Health
Contains a substance/a group of substances which may cause harm to the unborn child. Contains a substance which may be potentially carcinogenic.

Inhalation
In high concentrations, vapors may irritate throat and respiratory system and cause coughing.

Ingestion
May cause discomfort if swallowed.

Skin Contact
May cause sensitization by skin contact. Irritating to skin.

Eye Contact
Irritating to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Reactive Diluent</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: Proprietary</td>
<td>EC No.: Proprietary</td>
</tr>
<tr>
<td>GHS Classification</td>
<td>Acute Tox. 4 - H302; Eye Dam. 1 - H318; STOT SE 3 - H336</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resorcinol Diglycidyl Ether</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 101-90-6</td>
<td>EC No.:</td>
</tr>
<tr>
<td>GHS Classification</td>
<td>Acute Tox. 4 - H302; Acute Tox. 4 - H312; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351; Aquatic Chronic 2 - H411</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substituted Amine</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: Proprietary</td>
<td>EC No.: Proprietary</td>
</tr>
<tr>
<td>GHS Classification</td>
<td>Skin Corr. 1B - H314; STOT SE 3 - H335</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact
Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation
Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
Ingestion
May cause discomfort if swallowed.

Skin Contact
Allergic rash. Prolonged skin contact may cause redness and irritation.

Eye Contact
Irritation of eyes and mucous membranes. May cause severe irritation to eyes.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician
Treat Symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point (°C) 93

Extinguishing Media
Fire can be extinguished using: Dry chemicals. Foam. Water spray.

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Special Fire Fighting Procedures
Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Wear protective clothing as described in Section 8 of this material safety data sheet.

Environmental Precautions
Do not discharge onto the ground or into water courses. Avoid release to the environment.

Spill Clean Up Methods
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

Reference to other sections
For personal protection, see section 8.

7. HANDLING AND STORAGE

Handling
Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors.

Storage
Store at moderate temperatures in dry, well ventilated area. Keep container tightly sealed when not in use.

Storage Class
Chemical storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Protective Equipment

Engineering Measures
Provide adequate general and local exhaust ventilation.

Respiratory Equipment
If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection
Wear protective gloves.

Eye Protection
Wear tight-fitting goggles or face shield.

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Silver</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble in water.</td>
</tr>
<tr>
<td>Vapor density (air=1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt;BuAc</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>93</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Violent reaction with: Strong oxidizing agents. Strong reducing agents.

Stability
Stable under normal temperature conditions.

Hazardous Polymerisation
Will not polymerise.

Conditions To Avoid
Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Reacts violently with strong oxidizing substances.

Materials To Avoid
Strong oxidizing substances. Strong reducing agents.

Hazardous Decomposition Products
In case of fire, toxic gases (CO, CO₂, NOₓ) may be formed.

11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:
Resorcinol Diglycidyl Ether (CAS: 101-90-6)

Toxic Dose 1 - LD 50
2,570 mg/kg (oral, rat)

Toxic Dose 2 - LD 50
980 mg/kg (oral, mouse)

Carcinogenicity:
IARC Carcinogenicity
IARC Group 2B Possibly carcinogenic to humans.
NTP - Carcinogenicity
Reasonably anticipated human carcinogen.

Reactive Diluent (CAS: Proprietary)

Toxic Dose 1 - LD 50
1,540 mg/kg (oral, rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Acute Fish Toxicity
Very toxic to aquatic organisms.

Degradability
The product is moderately biodegradable.

Bioaccumulative potential
The product contains potentially bio-accumulating substances.

Mobility:
Semi-mobile.

Other adverse effects
Not known.

13. DISPOSAL CONSIDERATIONS

Waste Management
Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

Disposal Methods
Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

UN No. (DOT/TDG) UN3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082

DOT Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)
TDG Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver)

DOT Hazard Class 9
DOT Hazard Label Class 9
TDG Class 9
TDG Label(s) 9

IMDG Class 9
IREO-TEK H31

15. REGULATORY INFORMATION

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed.
Silver; 1,000 lbs (454 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.

SARA 313 Emission Reporting
The following ingredients are listed.
Resorcinol Diglycidyl Ether
Silver

CAA Accidental Release Prevention
None of the ingredients are listed.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
WARNING: This product contains a substance known to the State of California to cause cancer and/or reproductive harm.

California Air Toxics “Hot Spots” (A-I)
The following ingredients are listed.
Silver

California Air Toxics “Hot Spots” (A-II)
The following ingredients are listed.
Resorcinol Diglycidyl Ether

Massachusetts "Right To Know" List
The following ingredients are listed.

EMS
F-A, S-F
Resorcinol Diglycidyl Ether
Silver
Rhode Island “Right To Know” List
The following ingredients are listed.
Silver
Minnesota “Right To Know” List
The following ingredients are listed.
Resorcinol Diglycidyl Ether
Silver
New Jersey “Right To Know” List
The following ingredients are listed.
Resorcinol Diglycidyl Ether
Silver
Pennsylvania “Right To Know” List
The following ingredients are listed.
Resorcinol Diglycidyl Ether
Silver

International Inventories
EU - EINECS/ELINCS
All ingredients are listed or exempt.
Canada – DSL/NDSL
All ingredients are listed or exempt.
US - TSCA
All ingredients are listed or exempt.
US – TSCA 12(b) Export Notification
None of the ingredients are listed.
Australia - AICS
All ingredients are listed or exempt.
Japan – MITI
At least one ingredient is not listed.
Korea - KECI
At least one ingredient is not listed.
China - IECSC
All ingredients are listed or exempt.
Philippines – PICCS
At least one ingredient is not listed.
New Zealand - NZIOC
None of the ingredients are listed.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>01/21/2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>1</td>
</tr>
</tbody>
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