1. IDENTIFICATION

Product Name: EPO-TEK OE132-43
Product No.: EPO-TEK OE132-43
Identification No.: UN1760
Identified uses: Adhesive.
Supplier: Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
www.epotek.com
(978) 667-3805
(978) 663-9782
Emergency Telephone: (800) 255-3924

2. HAZARD(S) IDENTIFICATION

Appearance: Liquid
Color: Colourless to pale yellow.
Odor: Mild.
GHS Pictogram:

Signal Word: Danger

Hazard Statements:
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

Precautionary Statements:
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container in accordance with local regulations.

GHS Classification:
Physical and Chemical Hazards: Not classified.
Human health: Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Corr. 1B - H314
Environment: Not classified.

Inhalation: Harmful by inhalation.
Ingestion: May cause discomfort if swallowed.
Skin Contact: Causes burns. Harmful in contact with skin.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyrrolidinone, 1-(2-hydroxyethyl)-</td>
<td>3445-11-2</td>
<td></td>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>Diluent</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Corr. 1B - H314; Eye Dam. 1 - H318</td>
</tr>
<tr>
<td>Polymide Polymer</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H335</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation
Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

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. Get medical attention immediately. Continue to rinse.

Most important symptoms and effects, both acute and delayed

Inhalation
Vapors may cause headache, fatigue, dizziness and nausea. Irritation of nose, throat and airway.

Ingestion
May cause discomfort if swallowed.

Skin Contact
Severe irritation. May cause serious chemical burns to the skin.

Eye Contact
Extreme irritation of eyes and mucous membranes, including burning and tearing. Corneal damage.

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. Carbon dioxide (CO2).

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

Specific Hazards
In case of fire, toxic gases may be formed (COx, NOx).

Special Fire Fighting Procedures
Avoid breathing fire vapors. Water spray should be used to cool containers.

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
Avoid release to the environment.

Spill Clean Up Methods
DO NOT TOUCH SPILLED MATERIAL! 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.

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

7. HANDLING AND STORAGE

Handling
Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

Provide good ventilation. Do not handle broken packages without protective equipment.

Storage
Store at moderate temperatures in dry, well ventilated area.

Storage Class
Corrosive storage.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment

Process Conditions
Provide eyewash, quick drench.

Engineering Measures
Provide adequate general and local exhaust ventilation.

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

Hand Protection
Use protective gloves made of: Impermeable material.

Eye Protection
Wear tight-fitting goggles or face shield.

Other Protection
Wear appropriate clothing to prevent any possibility of skin contact.
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. Wash promptly with soap & water if skin 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>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colourless to pale yellow</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>&gt;BuAc</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>&gt;93</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

Stability
Stable under normal temperature conditions.

Hazardous Polymerisation
Will not polymerise.

Conditions To Avoid
Avoid excessive heat for prolonged periods of time.

Materials To Avoid

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

11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Toxic Dose 1 - LD 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyimide Polymer (CAS: Proprietary)</td>
<td>2, 700 mg/kg (oral, rat)</td>
</tr>
<tr>
<td></td>
<td>Toxic Dose 2 - LD 50</td>
</tr>
<tr>
<td></td>
<td>3, 100 mg/kg (dermal, rat)</td>
</tr>
<tr>
<td>Diluent (CAS: Proprietary)</td>
<td>Toxic Dose 1 - LD 50</td>
</tr>
<tr>
<td></td>
<td>1, 600 mg/kg (dermal, rabbit)</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity
There are no data on the ecotoxicity of this product.

Acute Toxicity - Fish
Not known.

Degradability
No data available.

Bioaccumulative potential
No data available on bioaccumulation.

Mobility:
The product has poor water-solubility.

Other adverse effects
Not known.

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

### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No. (DOT/TDG)</td>
<td>UN1760</td>
</tr>
<tr>
<td>UN No. (IMDG)</td>
<td>1760</td>
</tr>
<tr>
<td>UN No. (ICAO)</td>
<td>1760</td>
</tr>
<tr>
<td>DOT Proper Shipping Name</td>
<td>CORROSIVE LIQUID, N.O.S. (Diluent)</td>
</tr>
<tr>
<td>TDG Proper Shipping Name</td>
<td>CORROSIVE LIQUID, N.O.S. (Diluent)</td>
</tr>
<tr>
<td>DOT Hazard Class</td>
<td>8</td>
</tr>
<tr>
<td>DOT Hazard Label</td>
<td>Corrosive</td>
</tr>
<tr>
<td>TDG Class</td>
<td>8</td>
</tr>
<tr>
<td>TDG Label(s)</td>
<td>8</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>8</td>
</tr>
<tr>
<td>ICAO Class</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Transport Labels

![Corrosive Label](image)

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Pack Group</td>
<td>III</td>
</tr>
<tr>
<td>IMDG Pack Group</td>
<td>III</td>
</tr>
<tr>
<td>Air Pack Group</td>
<td>III</td>
</tr>
</tbody>
</table>

#### Environmentally Hazardous Substance/Marine Pollutant No.

EMS: F-A, S-B

### 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)**

None of the ingredients are listed.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed.

**SARA 313 Emission Reporting**

None of the ingredients are listed.

**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**

None of the ingredients are listed.
California Air Toxics “Hot Spots” (A-I)
None of the ingredients are listed.

California Air Toxics “Hot Spots” (A-II)
None of the ingredients are listed.

Massachusetts “Right To Know” List
None of the ingredients are listed.

Rhode Island “Right To Know” List
None of the ingredients are listed.

Minnesota “Right To Know” List
None of the ingredients are listed.

New Jersey “Right To Know” List
None of the ingredients are listed.

Pennsylvania “Right To Know” List
None of the ingredients are listed.

International Inventories

EU - EINECS/ELINCS
At least one ingredient is not listed.

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
None of the ingredients are listed.

Japan – MITI
At least one ingredient is not listed.

Korea - KECI
At least one ingredient is not listed.

China - IECSC
At least one ingredient is not listed.

Philippines – PICCS
At least one ingredient is not listed.

16. OTHER INFORMATION

Revision Date 05/29/2015
Revision 1

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