SAFETY DATA SHEET
EPO-TEK H22 Part A

1. IDENTIFICATION

Product Name: EPO-TEK H22 Part A
Product No.: EPO-TEK H22 Part A
Identification No.: UN3082
Identified uses: Adhesive.
Supplier: Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
www.epotek.com
(978) 667-3805
(978) 663-9782
(800) 255-3924

2. HAZARD(S) IDENTIFICATION

Appearance: Paste
Color: Silver.
Odor: Mild.
GHS Pictogram:

Signal Word: Warning
Hazard Statements:
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:
- P273: Avoid release to the environment.
- 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.
- P313: Get medical advice/attention.
- P501: Dispose of contents/container in accordance with local regulations.

Contains: Epoxy Phenol Novolac
GHS Classification:
- Physical and Chemical Hazards: Not classified.
- Human health: Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317
- Environment: Aquatic Chronic 2 - H411

Inhalation:
May cause irritation to the respiratory system.

Ingestion:
May cause discomfort if swallowed.

Skin Contact:
May cause sensitization by skin contact. Irritating to skin.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Epoxy Phenol Novolac</th>
<th>30-60%</th>
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<tbody>
<tr>
<td>CAS No.: 9003-36-5</td>
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<td>EC No.:</td>
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<td>GHS Classification</td>
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<tr>
<td>Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411</td>
<td></td>
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</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**
Skin irritation. Allergic rash.

**Eye Contact**
Irritating and may cause redness and pain.

**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.

**Special Fire Fighting Procedures**
Avoid breathing fire vapors.

### 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. Keep away from heat, sparks and open flame. 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

Process Conditions
Provide eyewash station.

Engineering Measures
Provide adequate ventilation.

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

Hand Protection
Wear protective gloves.

Eye Protection
Wear goggles/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>Description</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
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<td>Color</td>
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<td>Odor</td>
<td>Mild.</td>
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<tr>
<td>Solubility</td>
<td>Slightly soluble in water.</td>
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Vapor density (air=1) >1
Evaporation rate <BuAc
Flash point (°C) 93

10. STABILITY AND REACTIVITY

Reactivity
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 contact with oxidizers or reducing agents.

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:

Epoxy Phenol Novolac (CAS: 9003-36-5)

Toxic Dose 1 - LD 50
>5, 000 mg/kg (oral, rat)

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Acute Fish Toxicity
Very toxic to aquatic organisms.

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

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, Epoxy Phenol Novolac)
TDG Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver, Epoxy Phenol Novolac)
DOT Hazard Class 9
DOT Hazard Label Class 9
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.
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
None of the ingredients are listed.

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

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

Massachusetts “Right To Know” List
The following ingredients are listed.
Silver
Rhode Island “Right To Know” List
The following ingredients are listed.
Silver

Minnesota “Right To Know” List
The following ingredients are listed.
Silver

New Jersey “Right To Know” List
The following ingredients are listed.
Silver

Pennsylvania “Right To Know” List
The following ingredients are listed.
Silver

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
All ingredients are listed or exempt.

Japan – MITI
At least one ingredient is not listed.

Korea - KECI
All ingredients are listed or exempt.

China - IECSC
All ingredients are listed or exempt.

Philippines – PICCS
All ingredients are listed or exempt.

16. OTHER INFORMATION

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<th>Revision Date</th>
<th>01/05/2015</th>
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Disclaimer

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SAFETY DATA SHEET
EPO-TEK H22 Part B

1. IDENTIFICATION

<table>
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<th>Product Name</th>
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<tr>
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<td>Epoxy Technology, Inc.</td>
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<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>(800) 255-3924</td>
</tr>
</tbody>
</table>

2. HAZARD(S) IDENTIFICATION

**Appearance**  
Liquid

**Color**  
Amber.

**Odor**  
Mild.

**GHS Pictogram**

**Signal Word**  
Danger

**Hazard Statements**

- H302  
  Harmful if swallowed.
- H315  
  Causes skin irritation.
- H318  
  Causes serious eye damage.
- H335  
  May cause respiratory irritation.

**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.
- P501  
  Dispose of contents/container in accordance with local regulations.

**Contains**  
Substituted Imidazole

**GHS Classification**

- Physical and Chemical Hazards: Not classified.
- Human health: Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335
- Environment: Not classified.

**Inhalation**

Irritating to respiratory system.

**Ingestion**

May cause stomach pain or vomiting. Harmful if swallowed.

**Skin Contact**

Irritating to skin.

**Eye Contact**

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of corneal damage.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<th>Substituted Imidazole</th>
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<th>CAS No.: Proprietary</th>
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GHS Classification
Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335

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 irritation persists 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. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

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

Ingestion
May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

Skin Contact
Skin irritation.

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.

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
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. Keep away from heat, sparks and open flame. 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. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
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<td>Color</td>
<td>Amber</td>
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<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Solubility</td>
<td>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>
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</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
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 contact with oxidizers or reducing agents. Avoid heat, flames and other sources of ignition.

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
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment.

Degradability
No data available.

Bioaccumulative potential
No data available on bioaccumulation.

Mobility:
The product is soluble in water.

Other adverse effects
Not known.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

Road Transport Notes
Not Classified

Rail Transport Notes
Not classified.

Sea Transport Notes
Not classified.

Air Transport Notes
Not classified.

Transport Labels
No transport warning sign required.

Environmentally Hazardous Substance/Marine Pollutant
No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes
Not applicable.
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)
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CAA Accidental Release Prevention
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OSHA Highly Hazardous Chemicals
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Massachusetts “Right To Know” List
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All ingredients are listed or exempt.

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Philippines – PICCS
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