1. Identification

Product identifier
Product name EPO-TEK EJ2108 Part B
Product number EJ2108/B

Recommended use of the chemical and restrictions on use
Application Adhesive.

Details of the supplier of the safety data sheet
Supplier Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com, SDS@epotek.com

Emergency telephone number
Emergency telephone +1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) identification

Classification of the substance or mixture
Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Repr. 1A - H360FD
Environmental hazards Aquatic Chronic 2 - H411

Label elements
Pictogram

Signal word Danger
Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.
EPO-TEK EJ2108 Part B

**Precautionary statements**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Cyclic Ethyleneamine

### 3. Composition/Information on ingredients

#### Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>60-100%</td>
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<tr>
<td>CAS number: 7440-22-4</td>
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</tr>
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<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxypropylene triamine</td>
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<td>CAS number: 39423-51-3</td>
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<td><strong>Classification</strong></td>
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<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclic Ethyleneamine</td>
<td>1-5%</td>
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<tr>
<td>CAS number: Proprietary</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
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<tr>
<td>Acute Tox. 3 - H311</td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
<td></td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
<tr>
<td>Repr. 1A - H360FD</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all Hazard Statements are Displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

**Inhalation**

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

**Ingestion**

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin Contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
EPO-TEK EJ2108 Part B

Eye contact
Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

**General information**
Contains a substance/a group of substances which may damage fertility.

**Inhalation**
Irritation of nose, throat and airway.

**Ingestion**
May cause discomfort if swallowed.

**Skin contact**
Skin irritation. Allergic rash.

**Eye contact**
Irritation of eyes and mucous membranes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**
Extinguish with the following media: Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

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

Advice for firefighters

**Protective actions during firefighting**
Avoid breathing fire gases or vapors.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions**

**Environmental precautions**
Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

Methods and material for containment and cleaning up

**Methods for cleaning up**
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

7. Handling and storage

**Precautions for safe handling**

**Usage precautions**
Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Provide adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

**Storage precautions**
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container. Protect from light.
EPO-TEK EJ2108 Part B

Storage class
Chemical storage.

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

8. Exposure Controls/personal protection

Control parameters
Occupational exposure limits
Silver
Long-term exposure limit (8-hour TWA): 0.1

Ingredient comments
No exposure limits known for ingredient(s).

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield.

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Provide eyewash station. 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.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Paste.

Color
Silver.

Odor
Mild.

Flash point
> 93°C

Evaporation rate
< BuAc

Vapor density
> Air

Solubility(ies)
Slightly soluble in water.

Other information
None.

10. Stability and reactivity

Reactivity
The following materials may react violently with the product: Strong oxidizing agents. Strong reducing agents.
### Stability
Stable at normal ambient temperatures.

### Possibility of hazardous reactions
Will not polymerize.

### Conditions to avoid
Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Oxidizing agents. Reducing agents. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

### Materials to avoid
Strong oxidizing agents. Strong reducing agents.

### Hazardous decomposition products
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

#### 11. Toxicological information

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>Mode of Exposure</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause respiratory system irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause discomfort if swallowed.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause sensitisation by skin contact. Irritating to skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Irritating to eyes.</td>
</tr>
<tr>
<td>Acute and chronic health hazards</td>
<td>Contains a substance/a group of substances which may damage fertility.</td>
</tr>
</tbody>
</table>

#### 12. Ecological Information

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

**Toxicity**
Very toxic to aquatic organisms.

**Persistence and degradability**
No data available.

**Bioaccumulative potential**
No data available on bioaccumulation.

**Mobility in soil**
The product is insoluble in water.

**Other adverse effects**
Not known.

#### 13. Disposal considerations

**Waste treatment methods**
EPO-TEK EJ2108 Part B

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 14. Transport information

<table>
<thead>
<tr>
<th>UN Number</th>
<th></th>
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<tbody>
<tr>
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</tr>
<tr>
<td>UN No. (TDG)</td>
<td>3082</td>
</tr>
<tr>
<td>UN No. (IMDG)</td>
<td>3082</td>
</tr>
<tr>
<td>UN No. (ICAO)</td>
<td>3082</td>
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<table>
<thead>
<tr>
<th>UN proper shipping name</th>
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<tbody>
<tr>
<td>Proper shipping name (DOT)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)</td>
</tr>
<tr>
<td>Proper shipping name (TDG)</td>
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<tr>
<td>Proper shipping name (IMDG)</td>
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<tr>
<td>Proper shipping name (ICAO)</td>
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<table>
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<tr>
<td>TDG label</td>
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</tr>
<tr>
<td>IMDG Class</td>
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</tr>
<tr>
<td>ICAO class/division</td>
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**Transport labels**

- ![Pictogram](image)

<table>
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<th>Packing group</th>
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<tbody>
<tr>
<td>DOT pack group</td>
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<tr>
<td>TDG Packing Group</td>
<td>III</td>
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<tr>
<td>IMDG packing group</td>
<td>III</td>
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<tr>
<td>ICAO packing group</td>
<td>III</td>
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</table>

**Environmental hazards**

- Environmentally Hazardous Substance

<table>
<thead>
<tr>
<th>Special precautions for user</th>
<th></th>
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<tbody>
<tr>
<td>EmS</td>
<td>F-A, S-F</td>
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</table>

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.
15. Regulatory information

Regulatory References

Proprietary information protected pursuant to WTO’s Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

US Federal Regulations

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

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:

Silver
1,000 lbs (454 Kg)

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

SARA 313 Emission Reporting
The following ingredients are listed or exempt:

Silver

CAA Accidental Release Prevention
None of the ingredients are required to be listed.

OSHA Highly Hazardous Chemicals
None of the ingredients are required to be listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:

Silver

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are required to be listed.

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:

Cyclic Ethyleneamine

Silver

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:

Silver

Minnesota "Right To Know" List
The following ingredients are listed or exempt:
Silver

New Jersey "Right To Know" List
The following ingredients are listed or exempt:
Cyclic Ethyleneamine

Silver

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:
Cyclic Ethyleneamine

Silver

Inventories
EU - EINECS/ELINCS
Some of the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

Australia - AICS
All the ingredients are listed or exempt.

Japan - MITI
Some of the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
All the ingredients are listed or exempt.

16. Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>6/6/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>1</td>
</tr>
</tbody>
</table>
EPO-TEK EJ2108 Part B

Hazard statements in full

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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