1. Identification

Product identifier

Product name: EPO-TEK® EK1000-1
Product number: EK1000-1

Recommended use of the chemical and restrictions on use

Application: Adhesive.
Uses advised against: Use only for intended applications.

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: ChemTel: +1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) Identification

Classification of the substance or mixture

Physical hazards: Not Classified
Environmental hazards: Aquatic Chronic 2 - H411

Label elements

Pictogram

Signal word: Danger

Hazard statements: H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
### Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 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 national regulations.

Contains

- Epoxy Phenol Novolac, Diluent

### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Silver</strong></td>
<td>60-100%</td>
</tr>
<tr>
<td>CAS number: 7440-22-4</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
<tr>
<td><strong>Epoxy Phenol Novolac</strong></td>
<td>5-10%</td>
</tr>
<tr>
<td>CAS number: 9003-36-5</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
<tr>
<td><strong>Diluent</strong></td>
<td>5-10%</td>
</tr>
<tr>
<td>CAS number: Proprietary</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</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><strong>Specialty Epoxy Resin</strong></td>
<td>1-5%</td>
</tr>
<tr>
<td>CAS number: Proprietary</td>
<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

**Description of first aid measures**
EPO-TEK® EK1000-1

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 soap and 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.

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

Inhalation
Gas or vapor in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed.

Skin contact
Causes severe burns. May cause sensitisation by skin contact.

Eye contact
Causes serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO2). Carbon monoxide (CO).

Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapors. Use water to keep fire exposed containers cool and disperse 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
Avoid discharge to the aquatic 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.
EPO-TEK® EK1000-1

Advice on general occupational hygiene
Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Storage precautions
Store at -40°C. Keep container tightly sealed when not in use.

Storage class
Chemical storage.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters
Occupational exposure limits
Silver
Long-term exposure limit (8-hour TWA): ACGIH 0.1 mg/m³
Short-term exposure limit (15-minute): ACGIH
ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls

Protective equipment
Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Avoid inhalation of vapors.

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 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.
Odor threshold
No specific test data are available.

pH
No specific test data are available.

Melting point
No specific test data are available.
Initial boiling point and range
No specific test data are available.
EPO-TEK® EK1000-1

Flash point: > 93°C
Evaporation rate: < BuAc
Evaporation factor: No specific test data are available.
Flammability (solid, gas): No specific test data are available.
Upper/lower flammability or explosive limits: No specific test data are available.
Vapor pressure: No specific test data are available.
Vapor density: > 1
Relative density: No specific test data are available.
Solubility(ies): No specific test data are available.
Partition coefficient: No specific test data are available.
Auto-ignition temperature: No specific test data are available.
Decomposition Temperature: No specific test data are available.
Viscosity: No specific test data are available.
Other information: None.

10. Stability and reactivity
Reactivity: The following materials may react with the product: Strong acids. Strong alkalis.
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 heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
Materials to avoid: Strong alkalis. Strong acids.
Hazardous decomposition products: Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information
Information on toxicological effects
Acute toxicity - oral
ATE oral (mg/kg) 15,015.02
Acute toxicity - dermal
ATE dermal (mg/kg) 17,043.15
Acute toxicity - inhalation
ATE inhalation (gases ppm) 69,721.98
ATE inhalation (vapours mg/l) 170.43
ATE inhalation (dusts/mists mg/l) 23.24
EPO-TEK® EK1000-1

Inhalation
Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed.

Skin Contact
Causes severe burns. May cause sensitisation by skin contact.

Eye contact
Causes burns. Causes serious eye damage.

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

Acute aquatic toxicity
Acute toxicity - fish
Not available.

Persistence and degradability
Persistence and degradability
No data available.

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

Partition coefficient
No specific test data are available.

Mobility in soil
Mobility
No data available.

Other adverse effects
Other adverse effects
Not known.

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

14. Transport information
UN Number
UN No. (TDG) 1760
UN No. (IMDG) 1760
UN No. (ICAO) 1760
UN No. (DOT) 1760

UN proper shipping name
Proper shipping name (TDG) CORROSIVE LIQUID, N.O.S. (CONTAINS Diluent, Silver)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS Diluent, Silver)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS Diluent, Silver)

Proper shipping name (DOT) CORROSIVE LIQUID, N.O.S. (CONTAINS Diluent, Silver)

Transport hazard class(es)
TDG class 8
TDG label(s) 8
IMDG Class 8
ICAO class/division 8

Transport labels

Packing group
TDG Packing Group II
IMDG packing group II
ICAO packing group II
DOT packing group II

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS F-A, S-B

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 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.
EPO-TEK® EK1000-1

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

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.

Australia - AICS
Some of the ingredients are listed or exempt.

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

China - IECSC
Some of the ingredients are listed or exempt.

Philippines - PICCS
Some of the ingredients are listed or exempt.

16. Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>10/24/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>2</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>6/18/2015</td>
</tr>
</tbody>
</table>

Hazard statements in full

H302 Harmful if swallowed.
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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.