



## SAFETY DATA SHEET EPO-TEK EK1000

### 1. Identification

#### Product identifier

**Product name** EPO-TEK EK1000

**Product number** EK1000

#### 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

**Environmental hazards** Aquatic Chronic 2 - H411

#### Label elements

##### 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.  
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.  
P501 Dispose of contents/ container in accordance with national regulations.  
P313 Get medical advice/ attention.

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**Contains** Silver, Epoxy Resin Blend, Reactive Diluent

### Other hazards

Harmful dust may be released during cutting or grinding process.

### 3. Composition/information on ingredients

#### Mixtures

<b>Silver</b>	<b>60-100%</b>
CAS number: 7440-22-4	
<b>Classification</b>	
Aquatic Chronic 2 - H411	
<b>Epoxy Resin Blend</b>	<b>10-30%</b>
CAS number: Proprietary	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>Reactive Diluent</b>	<b>5-10%</b>
CAS number: Proprietary	
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
STOT SE 3 - H336	

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

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	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

<b>Inhalation</b>	Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Allergic rash. Prolonged contact may cause redness, irritation and dry skin.

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**Eye contact** May cause temporary eye irritation.

### 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. Water spray.

#### 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. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

**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. Good personal hygiene procedures should be implemented. Avoid inhalation of vapors.

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

**Storage precautions** Store at -40 degrees C. Keep container tightly sealed when not in use.

**Storage class** Chemical storage.

#### Specific end uses(s)

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

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

Silver

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Long-term exposure limit (8-hour TWA): ACGIH 0.1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH

ACGIH = American Conference of Governmental Industrial Hygienists.

**Ingredient comments** WEL = Workplace Exposure Limits

### Exposure controls

#### Protective equipment



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

**Eye/face protection** The following protection should be worn: Chemical splash goggles.

**Hand protection** Wear protective gloves.

**Other skin and body 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.

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

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Color</b>	Silver.
<b>Odor</b>	Mild.
<b>Flash point</b>	93°C
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Other information</b>	None.

## 10. Stability and reactivity

**Reactivity** The following materials may react with the product: Strong oxidizing agents. Strong reducing agents. Strong alkalis. Acids.

**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 contact with acids and alkalis. Avoid contact with the following materials: Oxidizing agents. Reducing agents.

**Materials to avoid** Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents.

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**Hazardous decomposition products**      Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**ATE oral (mg/kg)**                      5,000.0

**Inhalation**                              Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

**Ingestion**                                May cause discomfort if swallowed.

**Skin Contact**                            May cause sensitisation by skin contact.

**Eye contact**                             Irritating to eyes.

### 12. Ecological Information

**Ecotoxicity**                              The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### Toxicity

**Toxicity**                                  Very toxic to aquatic organisms.

#### Persistence and degradability

**Persistence and degradability**    The product is moderately biodegradable.

#### Bioaccumulative potential

**Bio-Accumulative Potential**        No data available on bioaccumulation.

#### Mobility in soil

**Mobility**                                Semi-mobile.

#### Other adverse effects

**Other adverse effects**                Not known.

### 13. Disposal considerations

#### Waste treatment methods

**General information**                    Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.

**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. (DOT)**                            3082

**UN No. (TDG)**                            3082

**UN No. (IMDG)**                          3082

**UN No. (ICAO)**                          3082

**EPO-TEK EK1000****UN proper shipping name**

<b>Proper shipping name (DOT)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin Blend, Silver)
<b>Proper shipping name (TDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin Blend, Silver)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin Blend, Silver)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin Blend, Silver)

**Transport hazard class(es)**

<b>DOT hazard class</b>	9
<b>DOT hazard label</b>	Class 9
<b>TDG class</b>	9
<b>TDG label</b>	9
<b>IMDG Class</b>	9
<b>ICAO class/division</b>	9

**Transport labels****Packing group**

<b>DOT pack group</b>	III
<b>TDG Packing Group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III

**Environmental hazards****Environmentally Hazardous Substance****Special precautions for user**

<b>EmS</b>	F-A, S-F
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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** 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.

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### **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**

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### Inventories

#### EU - EINECS/ELINCS

Some of the ingredients are listed or exempt.

#### Canada - DSL/NDL

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 - KECI

Some of the ingredients are listed or exempt.

#### China - IECSC

All the ingredients are listed or exempt.

#### Philippines - PICCS

Some of the ingredients are listed or exempt.

### 16. Other information

<b>Revision date</b>	4/7/2016
<b>Revision</b>	2
<b>Supersedes date</b>	3/6/2015
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

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