



SAFETY DATA SHEET EPO-TEK® EK1000-1

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
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
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.

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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

Mixtures

| | |
|-----------------------|----------------|
| Silver | 60-100% |
| CAS number: 7440-22-4 | |

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|--------------------------|
| Classification |
| Aquatic Chronic 2 - H411 |

| | |
|-----------------------------|--------------|
| Epoxy Phenol Novolac | 5-10% |
| CAS number: 9003-36-5 | |

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|--------------------------|
| Classification |
| Skin Irrit. 2 - H315 |
| Eye Irrit. 2 - H319 |
| Skin Sens. 1 - H317 |
| Aquatic Chronic 2 - H411 |

| | |
|-------------------------|--------------|
| Diluent | 5-10% |
| CAS number: Proprietary | |

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| Classification |
| Acute Tox. 4 - H312 |
| Acute Tox. 4 - H332 |
| Skin Corr. 1B - H314 |
| Eye Dam. 1 - H318 |

| | |
|------------------------------|-------------|
| Specialty Epoxy Resin | 1-5% |
| CAS number: Proprietary | |

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|-----------------------|
| Classification |
| Acute Tox. 4 - H302 |
| Skin Irrit. 2 - H315 |
| Eye Irrit. 2 - H319 |
| STOT SE 3 - H335 |

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

4. First-aid measures

Description of first aid measures

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|---------------------|--|
| 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. |
| 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

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|---------------------|--|
| 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

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|-----------------------------|------------------------|
| 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.

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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)

Specific end use(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. |

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| | |
|---|--------------------------------------|
| 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

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| 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 (CO ₂). |

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

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| | |
|---------------------|--|
| 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. |
| <u>Acute aquatic toxicity</u> | |
| Acute toxicity - fish | Not available. |
| <u>Persistence and degradability</u> | |
| Persistence and degradability | No data available. |
| <u>Bioaccumulative potential</u> | |
| Bio-Accumulative Potential | No data available on bioaccumulation. |
| Partition coefficient | No specific test data are available. |
| <u>Mobility in soil</u> | |
| Mobility | No data available. |
| <u>Other adverse effects</u> | |
| Other adverse effects | Not known. |

13. Disposal considerations**Waste treatment methods**

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|-------------------------|---|
| 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 |
|------------------|---|

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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.

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|-----------------------------------|
| 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.

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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.

EPO-TEK® EK1000-1**Korea - KECI**

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

| | |
|----------------------------------|--|
| Revision date | 10/24/2018 |
| Revision | 2 |
| Supersedes date | 6/18/2015 |
| Hazard statements in full | <p>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.</p> |

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