SAFETY DATA SHEET
EPO-TEK H20E-PFC-D

1. Identification

Product identifier

Product name  EPO-TEK H20E-PFC-D

Product number  H20E-PFC-D

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 Dam. 1 - H318 Skin Sens. 1 - H317

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.
                   H318 Causes serious eye damage.
                   H411 Toxic to aquatic life with long lasting effects.
EPO-TEK H20E-PFC-D

Precautionary statements

P261 Avoid breathing vapor/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
P310 Immediately call a poison center/ doctor.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

Epoxy Phenol Novolac, Reactive Diluent, Substituted Imidazole

Other hazards

Harmful dust may be released during cutting or grinding process.

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Material</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>
<td>Aquatic Chronic 2 - H411</td>
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<tr>
<td>Epoxy Phenol Novolac</td>
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<td>Skin Irr. 2 - H315</td>
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<td>Eye Irr. 2 - H319</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
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<tr>
<td>Aquatic Chronic 2 - H411</td>
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<tr>
<td>Reactive Diluent</td>
<td>5-10%</td>
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<td>CAS number: Proprietary</td>
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<tr>
<td>Classification</td>
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<tr>
<td>Acute Tox. 4 - H302</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
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</tr>
<tr>
<td>STOT SE 3 - H336</td>
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</tbody>
</table>
EPO-TEK H20E-PFC-D

Substituted Imidazole 1-5%
CAS number: Proprietary

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335

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.

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: Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract.

Ingestion: May cause discomfort if swallowed.

Skin contact: Skin irritation. May cause sensitization by skin contact.

Eye contact: May cause 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: Extinguish with the following media: Dry chemicals. Foam. Water spray.

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
EPO-TEK H20E-PFC-D

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

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.

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

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)
The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust 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
EPO-TEK H20E-PFC-D

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

10. Stability and reactivity
Reactivity: The following materials may react with the product: Strong oxidizing agents.
Stability: Stable at normal ambient temperatures.
Possibility of hazardous reactions: May polymerize.
Conditions to avoid: Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizing agents.
Materials to avoid: Strong oxidizing agents.
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

Inhalation: Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion: May cause discomfort if swallowed.
Skin Contact: May cause sensitization by skin contact. Irritating to skin.
Eye contact: May cause serious eye damage.

12. Ecological Information
Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity: Not available.
Acute toxicity - fish: Not available.
Persistence and degradability: No data available.
EPO-TEK H20E-PFC-D

Mobility
No data available.

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. (DOT) 3082
UN No. (TDG) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082

UN proper shipping name
Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Epoxy Phenol Novolac)
Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Epoxy Phenol Novolac)
Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Epoxy Phenol Novolac)
Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Epoxy Phenol Novolac)

Transport hazard class(es)
DOT hazard class 9
DOT hazard label Class 9
TDG class 9
TDG label 9
IMDG Class 9
ICAO class/division 9

Transport labels

Packing group
DOT pack group III
TDG Packing Group III
IMDG packing group III
ICAO packing group III
EPO-TEK H20E-PFC-D

Environmental hazards
Environmentally Hazardous Substance

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

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:
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:
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:
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:
  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
  Blocking Agent

Pennsylvania "Right To Know" List
The following ingredients are listed:
  Silver
  Blocking Agent

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
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>Description</th>
<th>Details</th>
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</thead>
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<tr>
<td>Revision</td>
<td>1</td>
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<tr>
<td>Hazard statements in full</td>
<td>H302 Harmful if swallowed.</td>
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<tr>
<td></td>
<td>H315 Causes skin irritation.</td>
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</tr>
<tr>
<td></td>
<td>H335 May cause respiratory irritation.</td>
</tr>
<tr>
<td></td>
<td>H336 May cause drowsiness or dizziness.</td>
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<tr>
<td></td>
<td>H411 Toxic to aquatic life with long lasting effects.</td>
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