



SAFETY DATA SHEET  
EPO-TEK H20E-HC Part A

### 1. IDENTIFICATION

<u>Product Name</u>	EPO-TEK H20E-HC Part A
<u>Product No.</u>	EPO-TEK H20E-HC Part A
<u>Identified uses</u>	Adhesive.
<u>Supplier</u>	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA www.epotek.com (978) 667-3805 (978) 663-9782
<u>Emergency Telephone</u>	(800) 255-3924

### 2. HAZARD(S) IDENTIFICATION

<u>Appearance</u>	Paste
<u>Color</u>	Silver.
<u>Odor</u>	Mild.
<u>GHS Pictogram</u>	



Signal Word Warning

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.
P501	Dispose of contents/container in accordance with local regulations.

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335
Environment	Aquatic Chronic 3 - H412

Inhalation

Irritating to respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin Contact

May cause sensitization by skin contact. Irritating to skin.

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## Eye Contact

Irritating to eyes.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Bisphenol A Diglycidyl Ether Resin	10-30%
CAS No.: Proprietary	EC No.: Proprietary
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335; Aquatic Chronic 2 - H411	
Functionalized Acrylate	10-30%
CAS No.: Proprietary	EC No.: Proprietary
GHS Classification Acute Tox. 5 - H303; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335	

### 4. FIRST-AID MEASURES

#### Description of first aid measures

##### Inhalation

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

##### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

##### Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

##### Eye Contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

#### Most important symptoms and effects, both acute and delayed

##### Inhalation

Irritation of nose, throat and airway. Upper respiratory irritation. Inhalation of dusts during cutting, grinding, or sanding of this product may cause irritation of the respiratory tract.

##### Ingestion

May cause discomfort if swallowed.

##### Skin Contact

Skin irritation. Allergic rash.

##### Eye Contact

Irritation of eyes and mucous membranes.

#### Indication of any immediate medical attention and special treatment needed

##### Notes To The Physician

Treat Symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash point (°C) 93

##### Extinguishing Media

Fire can be extinguished using: Dry chemicals. Foam. Water spray.

##### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# EPO-TEK H20E-HC Part A

## Protective Equipment For Fire-Fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

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

### Environmental Precautions

Do not discharge into drains, water courses or onto the ground. Avoid release to the environment.

### Spill Clean Up Methods

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

### Reference to other sections

For personal protection, see section 8.

## 7. HANDLING AND STORAGE

### Handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors. Provide good ventilation.

### Storage

Keep containers tightly closed. Store at moderate temperatures in dry, well-ventilated area. Keep away from heat, sparks and open flame. Avoid contact with oxidizing agents.

### Storage Class

Chemical storage.

### Specific end use(s)

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
Silver (dust)*			0.01			
Silver (dust)*			0.1			
COMPONENT						IDLH
Silver (dust)*						10

*\*This product contains Silver, which may cause respiratory irritation when inhaled in fine particulate form. Silver should not be respirable in this formulation. However, if cured material will be ground, milled, etc., wear respiratory protection to avoid inhaling any dust that may be produced.*

### Protective Equipment



### Process Conditions

Provide eyewash station.

### Engineering Measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

### Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

### Hand Protection

Use protective gloves.

### Eye Protection

Wear goggles/face shield.

### Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

# EPO-TEK H20E-HC Part A

## 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>	Paste
<u>Color</u>	Silver.
<u>Odor</u>	Mild.
<u>Solubility</u>	Insoluble in water
<u>Vapor density (air=1)</u>	>1
<u>Evaporation rate</u>	<BuAc
<u>Flash point (°C)</u>	93

## 10. STABILITY AND REACTIVITY

### Reactivity

Violent reaction with: Oxidizing materials.

### Stability

Stable under normal temperature conditions.

### Hazardous Polymerisation

Will not polymerise.

### Conditions To Avoid

Avoid contact with strong oxidizers. Avoid heat, flames and other sources of ignition.

### Materials To Avoid

Strong oxidizing substances.

### Hazardous Decomposition Products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Information on Ingredients:

Bisphenol A Diglycidyl Ether Resin (CAS: Proprietary)

#### Toxic Dose 1 - LD 50

30, 000 mg/kg (oral, rat)

#### Toxic Dose 2 - LD 50

>1, 200 mg/kg (dermal, rat)

Functionalized Acrylate (CAS: Proprietary)

#### Toxic Dose 1 - LD 50

5, 000 mg/kg (oral, rat)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Degradability

The product is moderately biodegradable.

### Bioaccumulative potential

The product contains potentially bio-accumulating substances.

### Mobility:

Semi-mobile.

### Other adverse effects

Not known.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

#### 14. TRANSPORT INFORMATION

<u>Road Transport Notes</u>	Not Classified
<u>Rail Transport Notes</u>	Not classified.
<u>Sea Transport Notes</u>	Not classified.
<u>Air Transport Notes</u>	Not classified.

#### 15. REGULATORY INFORMATION

##### 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.

###### 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.

Functionalized Acrylate

Silver

###### New Jersey "Right To Know" List

The following ingredients are listed.

Silver

###### Pennsylvania "Right To Know" List

The following ingredients are listed.

Silver

##### International Inventories

###### EU - EINECS/ELINCS

At least one ingredient is not listed.

###### Canada – DSL/NDSL

At least one ingredient is not listed.

US - TSCA

At least one ingredient is not listed.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

At least one ingredient is not listed.

Japan – MITI

At least one ingredient is not listed.

Korea - KECI

At least one ingredient is not listed.

China - IECSC

At least one ingredient is not listed.

Philippines – PICCS

At least one ingredient is not listed.

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16. OTHER INFORMATION

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<u>Revision Date</u>	4 June 2014
<u>Revision</u>	1

Disclaimer

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.



SAFETY DATA SHEET  
EPO-TEK H20E-HC Part B

### 1. IDENTIFICATION

<u>Product Name</u>	EPO-TEK H20E-HC Part B
<u>Product No.</u>	EPO-TEK H20E-HC Part B
<u>Identified uses</u>	Adhesive.
<u>Supplier</u>	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA www.epotek.com (978) 667-3805 (978) 663-9782
<u>Emergency Telephone</u>	(800) 255-3924

### 2. HAZARD(S) IDENTIFICATION

<u>Appearance</u>	Paste
<u>Color</u>	Silver.
<u>Odor</u>	Mild.
<u>GHS Pictogram</u>	



<u>Signal Word</u>	Danger	
<u>Hazard Statements</u>	H318	Causes serious eye damage.
<u>Precautionary Statements</u>	P280 P305+351+338	Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<u>GHS Classification</u>	Physical and Chemical Hazards	Not classified.
	Human health	Eye Dam. 1 - H318
	Environment	Not classified.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Reactive Diluent	5-10%
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CAS No.: Proprietary	EC No.: Proprietary
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GHS Classification  
Acute Tox. 4 - H302; Eye Dam. 1 - H318; STOT SE 3 - H336

## EPO-TEK H20E-HC Part B

Imidazole Blend	5-10%
CAS No.: Proprietary	EC No.: Proprietary
GHS Classification Acute Tox. 4 - H302; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; STOT SE 3 - H335	

### 4. FIRST-AID MEASURES

#### Description of first aid measures

##### Inhalation

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

##### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

##### Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

##### Eye Contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

#### Most important symptoms and effects, both acute and delayed

##### Inhalation

Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

##### Ingestion

May cause discomfort if swallowed.

##### Skin Contact

May cause skin irritation/eczema.

##### Eye Contact

Extreme irritation of eyes and mucous membranes, including burning and tearing. Corneal damage.

#### Indication of any immediate medical attention and special treatment needed

##### Notes To The Physician

Treat Symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash point (°C) 93

##### Extinguishing Media

Fire can be extinguished using: Dry chemicals. Foam. Water spray.

##### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

##### Protective Equipment For Fire-Fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### 6. ACCIDENTAL RELEASE MEASURES

##### Personal Precautions

For personal protection, see section 8.

##### Environmental Precautions

Avoid release to the environment.

##### Spill Clean Up Methods

Collect in containers and seal securely. Remove containers and flush area with water.

##### Reference to other sections

For personal protection, see section 8.



## EPO-TEK H20E-HC Part B

### 7. HANDLING AND STORAGE

#### Handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Provide good ventilation. Protect against direct sunlight.

#### Storage

Store at moderate temperatures in dry, well-ventilated area. Keep containers tightly closed. Keep away from heat, sparks and open flame. Store away from: Oxidizing material.

#### Specific end use(s)

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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
Silver (dust)*			0.01			
Silver (dust)*			0.1			
COMPONENT						IDLH
Silver (dust)*						10

*\*This product contains Silver, which may cause respiratory irritation when inhaled in fine particulate form. Silver should not be respirable in this formulation. However, if cured material will be ground, milled, etc., wear respiratory protection to avoid inhaling any dust that may be produced.*

#### Engineering Measures

Provide adequate ventilation.

#### Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

#### Hand Protection

Use protective gloves.

#### Eye Protection

Wear goggles/face shield.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>	Paste
<u>Color</u>	Silver.
<u>Odor</u>	Mild.
<u>Solubility</u>	Slightly soluble in water.
<u>Flash point (°C)</u>	93
Not known.	

### 10. STABILITY AND REACTIVITY

#### Reactivity

Violent reaction with: Acids. Alkalis. Oxidizing materials. Strong reducing agents.

#### Stability

Stable under normal temperature conditions.

#### Hazardous Polymerisation

Will not polymerise.

#### Conditions To Avoid

Avoid heat, flames and other sources of ignition. Avoid contact with oxidizers or reducing agents. Avoid contact with acids and alkalis.

#### Materials To Avoid

Strong alkalis. Strong oxidizing substances. Strong reducing agents. Strong acids.

## EPO-TEK H20E-HC Part B

### Hazardous Decomposition Products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

No information available.

#### Toxicological Information on Ingredients:

Reactive Diluent (CAS: Proprietary)

#### Toxic Dose 1 - LD 50

1, 540 mg/kg (oral, rat)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

There are no data on the ecotoxicity of this product.

### Degradability

The product is moderately biodegradable.

### Bioaccumulative potential

No data available on bioaccumulation.

### Mobility:

Mobile.

### Other adverse effects

Not known.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

## 14. TRANSPORT INFORMATION

### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

### Transport Labels

No transport warning sign required.

### Environmentally Hazardous Substance/Marine Pollutant

No.

### Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

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.

#### 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

## EPO-TEK H20E-HC Part B

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

WARNING: This product contains a substance known to the State of California to cause cancer and/or reproductive harm.

#### 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

### International Inventories

#### EU - EINECS/ELINCS

At least one ingredient is not listed.

#### Canada – DSL/NDSL

At least one ingredient is not listed.

#### US - TSCA

At least one ingredient is not listed.

#### US – TSCA 12(b) Export Notification

None of the ingredients are listed.

#### Australia - AICS

At least one ingredient is not listed.

#### Japan – MITI

At least one ingredient is not listed.

#### Korea - KECI

At least one ingredient is not listed.

#### China - IECSC

At least one ingredient is not listed.

#### Philippines – PICCS

At least one ingredient is not listed.

### OTHER INFORMATION

Revision Date 4 June 2014

Revision 1

### Disclaimer

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.