* TECHNOLOGY

SAFETY DATA SHEET EPO-TEK H20E-HC Part A

1. Identification	
Product identifier	
Product name	EPO-TEK H20E-HC Part A
Product number	H20E-HC/A
Recommended use of the che	emical and restrictions on use
Application	Adhesive.
Details of the supplier of the s	afety 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	<u>r</u>
Emergency telephone	+1 (800) 255-3924, +1 (813) 248-0585
2. Hazard(s) identification	
Classification of the substance	e 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	 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. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

Contains

Silver, Bisphenol A Diglycidyl Ether Resin, Functionalized Acrylate

Other hazards

Harmful dust may be released during cutting or grinding process.

Hazards not otherwise Contains epoxy constituents. May produce an allergic reaction.

classified (HNOC)

3. Composition/information on ingredients

Mixtures

Silver

CAS number: 7440-22-4

Classification Aquatic Chronic 2 - H411

Bisphenol A Diglycidyl Ether Resin

CAS number: Proprietary

Classification

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

Functionalized Acrylate

CAS number: Proprietary

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

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 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.

10-30%

60-100%

10-30%

for firefighters 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 Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment. Methods and material for containment and cleaning up Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment. 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 Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors. Provide adequate ventilation. Conditions for safe storage, including any incompatibilities		
Eye contact Irritation of eyes and mucous membranes. Indication of immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. 5. Fire-fighting media Suitable 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 methe substance or mixture Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Advice for firefighters Protective actions during fire gases or vapors. Protective actions during fire gases or vapors. Firefighting 6. Accidental release measures Vear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. 6. Accidental release measures Vear 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 for cleaning up Stop leak if possible without risk. Absorb in verniculite, 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.	Ingestion	May cause discomfort if swallowed.
Indication of immediate medical attention and special treatment needed Notes for the doctor Treat symptomatically. 5. Fire-fighting media Suitable extinguishing media Suitable extinguishing media Extinguish with the following media: Dry chemicals. Foam. Water spray. Special hazards arising from the substance or mkture Hazardous combustion Hazardous combustion Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Advice for firefighters Protective actions during Protective actions during Avoid breathing fire gases or vapors. firefighting Special protective equipment Vear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. 6. Accidental release measures Personal precautions, protective equipment and emergency procedures Personal precautions 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 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 <	Skin contact	Skin irritation. Allergic rash.
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	Usage precautions	eyes. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors. Provide
	Conditions for safe storage, in	cluding any incompatibilities
Storage precautions Store at room temperature. Keep container tightly sealed when not in use.	Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.
Storage class Chemical storage.	Storage class	Chemical storage.
Specific end uses(s)	Specific end uses(s)	
Specific end use(s) The identified uses for this product are detailed in Section 1.2.	Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
8. Exposure Controls/personal protection	8. Exposure Controls/personal	protection

Control parameters

Occupational exposure limits

Silver

Long-term exposure limit (8-hour TWA): 0.1

Exposure controls

Protective equipment



Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.
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.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapors. Observe any occupational exposure limits for the product or ingredients.

9. Physical and Chemical Properties

	•
Information on basic physical and chemical properties	
Appearance	Paste.
Color	Silver.
Odor	Mild.
Flash point	> 93°C
Evaporation rate	<buac< th=""></buac<>
Vapor density	>1
Solubility(ies)	Insoluble in water.
Other information	None.
10. Stability and reactivity	
Reactivity	The following materials may react violently with the product: Oxidizing materials.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.

Conditions to avoid Avoid excessive heat for prolonged periods of time.

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 eff	ects
Inhalation	Irritating to respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin Contact	May cause sensitisation by skin contact. Irritating to skin.
Eye contact	Irritating to eyes.
12. Ecological Information	
Ecotoxicity	Toxic to aquatic life with long lasting effects.
Acute toxicity - fish	Not available.
Persistence and degradability	
Persistence and degradability	The product is moderately biodegradable.
Bioaccumulative potential Bio-Accumulative Potential	The product contains potentially biogeourgulating substances
	The product contains potentially bioaccumulating substances.
<u>Mobility in soil</u> Mobility	Semi-mobile.
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)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (DOT)	3082
UN proper shipping name	
Proper shipping name (TDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Bisphenol A Diglycidyl Ether Resin)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Bisphenol A Diglycidyl Ether Resin)

Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Bisphenol A Diglycidyl Ether Resin)
Proper shipping name (DOT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver, Bisphenol A Diglycidyl Ether Resin)
Transport hazard class(es)	
TDG class	9

TDG class	9
TDG label(s)	9
IMDG Class	9
ICAO class/division	9

Transport labels



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

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS

F-A, S-F

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information	
International Regulations	
Additional Regulatory References	Informazioni proprietarie protette ai sensi dell'Accordo dell WTO sugli aspetti commerciali dei diritti di proprietà intellettuale (TRIPS), Sezione 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.

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

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

Revision date	6/15/2016
Revision	2
Supersedes date	6/5/2014
Hazard statements in full	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.

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.

* TECHNOLOGY

SAFETY DATA SHEET EPO-TEK H20E-HC Part B

1. Identification	
Product identifier	
Product name	EPO-TEK H20E-HC Part B
Product number	H20E-HC/B
Recommended use of the cho	emical and restrictions on use
Application	Adhesive.
Details of the supplier of the s	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 numbe	
Emergency telephone	+1 (800) 255-3924, +1 (813) 248-0585
2. Hazard(s) identification	
Classification of the substanc	e or mixture
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 2 - H411
Label elements	
Pictogram	
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 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. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/ container in accordance with national regulations.

Contains

Reactive Diluent, Imidazole Blend

Other hazards

Harmful dust may be released during cutting or grinding process.

3. Composition/information on ingredients

Mixtures

Silver

CAS number: 7440-22-4

Classification

Aquatic Chronic 2 - H411

Reactive Diluent

CAS number: Proprietary

Classification

Acute Tox. 4 - H302 Eye Dam. 1 - H318 STOT SE 3 - H336

Imidazole Blend

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

Pescription 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 irritation persists after washing. 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. 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.

5-10%

60-100%

5-10%

Skin contact	May cause skin irritation/eczema.			
Eye contact				
-	Severe irritation, burning and tearing. Corneal damage.			
Indication of immediate medic	Indication of immediate medical attention and special treatment needed			
	Treat symptomatically.			
5. Fire-fighting measures				
Extinguishing media				
Suitable extinguishing media	a Extinguish with the following media: Dry chemicals. Foam. Water spray.			
Special hazards arising from t	he substance or mixture			
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.			
Advice for firefighters				
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.			
6. Accidental release measure	s			
Personal precautions, protecti	ve equipment and emergency procedures			
Personal precautions	For personal protection, see Section 8.			
Environmental precautions				
Environmental precautions	Avoid release to the environment.			
Methods and material for cont	ainment and cleaning up			
Methods for cleaning up	Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.			
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. Protect against direct sunlight.			
Conditions for safe storage, in	cluding any incompatibilities			
Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.			
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 Long-term exposure limit (8-he Exposure controls	bur TWA): 0.1			

Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.	
Hand protection	Use protective gloves.	
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene measures	Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.	
9. Physical and Chemical Pro	perties	
Information on basic physical	and chemical properties	
Appearance	Paste.	
Color	Silver.	
Odor	Mild.	
Flash point	> 93°C	
Solubility(ies)	Slightly soluble in water.	
Other information	None.	
10. Stability and reactivity		
Reactivity	The following materials may react violently with the product: Acids. Alkalis. Oxidizing materials. Strong reducing agents.	
Stability	Stable at normal ambient temperatures.	
Possibility of hazardous reactions	Will not polymerize.	
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents. Avoid contact with acids and alkalis.	
Materials to avoid	Strong alkalis. Strong oxidizing agents. Strong reducing agents. Strong acids.	
Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).	
11. Toxicological information		
Information on toxicological e	ffects	

Information on toxicological effects

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	Causes skin irritation.		
Eye contact	Causes serious eye damage.		
12. Ecological Information			
Ecotoxicity	Toxic to aquatic life with long lasting effects.		
Toxicity			
Acute toxicity - fish	Not available.		
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	Mobile.		
Other adverse effects			
Other adverse effects	Not known.		
13. Disposal considerations			
We at a two at was the ada			
Waste treatment methods			
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.		
Disposal methods			
Disposal methods 14. Transport information			
Disposal methods 14. Transport information UN Number	local Waste Disposal Authority.		
Disposal methods 14. Transport information UN Number UN No. (TDG)	local Waste Disposal Authority. 3082		
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ICAO class/division

Transport labels



Packing group

TDG Packing Group	III
IMDG packing group	111
ICAO packing group	III
DOT packing group	

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS

F-A, S-F

9

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

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*

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

 Inventories

 EU - EINECS/ELINCS

 All 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				
Revision date	6/15/2016			
Revision	2			

Supersedes date	6/4/2014
Hazard statements in full	H302 Harmful if swallowed.
	H315 Causes skin irritation.
	H318 Causes serious eye damage.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H411 Toxic to aquatic life with long lasting effects.

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