

SAFETY DATA SHEET EPO-TEK H20S Part A

1. IDENTIFICATION

Product NameEPO-TEK H20S Part AProduct No.EPO-TEK H20S Part A

Identification No.UN3082Identified usesAdhesive.

Supplier Epoxy Technology, Inc.

14 Fortune Drive Billerica, MA 01821

USA

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Emergency Telephone

2. HAZARD(S) IDENTIFICATION

Appearance Paste

Color Silver.

Odor Mild.

GHS Pictogram







Signal Word Warning

Hazard Statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H341 Suspected of causing genetic defects.
 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.

P281 Use personal protective equipment as required.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+313 IF exposed or concerned: Get medical advice/attention.

P313 Get medical advice/attention.

P501 Dispose of contents/container in accordance with local regulations.

Contains Bisphenol A Diglycidyl Ether Resin

GHS Classification

Physical and Chemical Hazards Not classified.

Human health Skin Irrit. 2 - H315;Eye Irrit. 2 - H319;Skin Sens. 1 - H317;Muta. 2 - H341

Environment Aquatic Chronic 2 - H411

Inhalation

May cause irritation to the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin Contact

Irritating to skin. May cause allergic contact eczema.

Eye Contact

Irritating to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Bisphenol A Diglycidyl Ether Resin

30-60%

CAS No.: 25085-99-8

EC No.:

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2B - H320; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411

Reactive Diluent 1-5%

CAS No.: Proprietary EC No.: Proprietary

GHS Classification

Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Resp. Sens. 1 - H334; Skin Sens. 1 - H317; Muta. 2 - H341

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

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.

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

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

Storage

Store at moderate temperatures in dry, well-ventilated area. Store away from: Oxidizing material. Keep container tightly sealed when not in use.

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. All handling to take place in well-ventilated area.

Respiratory Equipment

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

Hand Protection

Wear protective gloves.

Eye Protection

Wear goggles/face shield.

Other 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Paste
Color Silver.
Odor Mild.

Solubility Insoluble in water

Evaporation rate <BuAc Flash point (°C) >93

Not available.

10. STABILITY AND REACTIVITY

Reactivity

Violent reaction with: Acids. Alkalis. Strong oxidizing agents. Strong reducing agents. Heavy metals.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid exposure to high temperatures or direct sunlight. 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 acids. Strong alkalis. Strong oxidizing substances. Strong reducing agents. Other metals or alloys.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:

Bisphenol A Diglycidyl Ether Resin (CAS: 25085-99-8)

Toxic Dose 1 - LD 50

>15, 000 mg/kg (oral, rat)

Toxic Dose 2 - LD 50

>23, 000 mg/kg (dermal, rabbit)

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Degradability

The product is biodegradable.

Bioaccumulative potential

The product contains potentially bio-accumulating substances.

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

 UN No. (DOT/TDG)
 UN3082

 UN No. (IMDG)
 3082

 UN No. (ICAO)
 3082

DOT Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Bisphenol A Diglycidyl Ether Resin)

TDG Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Bisphenol A Diglycidyl Ether Resin)

DOT Hazard Class 9

DOT Hazard Label Class 9

 TDG Class
 9

 TDG Label(s)
 9

 IMDG Class
 9

 ICAO Class
 9

Transport Labels



 DOT Pack Group
 III

 IMDG Pack Group
 III

 Air Pack Group
 III

Environmentally Hazardous Substance/Marine Pollutant



EMS F-A, S-F

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.

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

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

All ingredients are listed or exempt.

Japan – MITI

The following ingredients are listed.

Reactive Diluent

Korea - KECI

All ingredients are listed or exempt.

China - IECSC

All ingredients are listed or exempt.

Philippines - PICCS

All ingredients are listed or exempt.

16. OTHER INFORMATION

Revision Date

12 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.



SAFETY DATA SHEET EPO-TEK H20S Part B

1. IDENTIFICATION

Product Name EPO-TEK H20S Part B EPO-TEK H20S Part B Product No.

Identified uses Adhesive.

Epoxy Technology, Inc. Supplier

14 Fortune Drive Billerica, MA 01821

USA

www.epotek.com (978) 667-3805 (978) 663-9782 (800) 255-3924

Emergency Telephone

2. HAZARD(S) IDENTIFICATION

Paste **Appearance** Color Silver. Odor Slight odor.

GHS Pictogram



Signal Word Danger

Hazard Statements

H318 Causes serious eye damage.

Precautionary Statements

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.

GHS Classification

Physical and Chemical Hazards Not classified. Human health Eye Dam. 1 - H318 Not classified.

Environment

Inhalation

May cause irritation to the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin Contact Slightly irritating. Eye Contact

Risk of serious damage to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Reactive Diluent 10-30%

CAS No.: Proprietary EC No.: Proprietary

GHS Classification

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

Substituted Imidazole 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. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air. Skin Contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing. Eye Contact

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. Get medical attention promptly if symptoms occur after washing.

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.

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, fog or mist.

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.

Reference to other sections

For personal protection, see section 8.

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.

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

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





Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

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

Hand Protection

Use protective gloves.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor 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. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

 Appearance
 Paste

 Color
 Silver.

 Odor
 Slight odor.

Flash point (°C) 93

10. STABILITY AND REACTIVITY

Reactivity

Violent reaction with: Acids. Alkalis. Strong reducing agents. Strong oxidizing agents.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid contact with acids and oxidizing substances.

Materials To Avoid

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

Hazardous Decomposition Products

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

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:

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

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

DOT).

 Road Transport Notes
 Not Classified

 Rail Transport Notes
 Not classified.

 Sea Transport Notes
 Not classified.

 Air Transport Notes
 Not classified.

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

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

All ingredients are listed or exempt.

Canada - DSL/NDSL

All ingredients are listed or exempt.

US - TSCA

All ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

All ingredients are listed or exempt.

Japan – MITI

At least one ingredient is not listed.

Korea - KECI

All ingredients are listed or exempt.

China - IECSC

All ingredients are listed or exempt.

Philippines - PICCS

All ingredients are listed or exempt.

16. OTHER INFORMATION

Revision Date 12 June 2014

1

Revision

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.