

SAFETY DATA SHEET EPO-TEK H20S-P PMF Syringe

1. Identification

Product identifier

Product name EPO-TEK H20S-P PMF Syringe

Product number H20S-P

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 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Muta. 2 -

H341

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.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects. H411 Toxic to aquatic life with long lasting effects.

EPO-TEK H20S-P PMF Syringe

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 If on skin: Wash with plenty of water.

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.

P342+P311 If experiencing respiratory symptoms: Call a poison center/ doctor. P501 Dispose of contents/ container in accordance with national regulations.

Contains Silver, Bisphenol A Diglycidyl Ether Resin, Reactive Diluent, Substituted Imidazole, Reactive

Diluent

Other hazards

Hazards not otherwise classified (HNOC)

Contains epoxy constituents. May produce an allergic reaction.

3. Composition/information on ingredients

Mixtures

Silver 60-100%

CAS number: 7440-22-4

Classification

Aquatic Chronic 2 - H411

Bisphenol A Diglycidyl Ether Resin 10-30%

CAS number: 25085-99-8

Classification

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

Reactive Diluent 5-10%

CAS number: Proprietary

Classification

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

Substituted Imidazole 1-5%

CAS number: Proprietary

Classification

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

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Reactive Diluent 1-5%

CAS number: Proprietary

Classification

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

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 and keep warm and at rest in a position comfortable for

breathing. Maintain an open airway. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if symptoms are severe or persist. Place unconscious person on their side in the recovery position and ensure

breathing can take place. Never give anything by mouth to an unconscious person.

Ingestion Remove affected person from source of contamination. Rinse mouth thoroughly with water.

Give plenty of water to drink. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if

symptoms are severe or persist.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Do not use

organic solvents. Get medical attention if symptoms are severe or persist after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

Most important symptoms and effects, both acute and delayed

General information Suspected of causing genetic defects.

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation. May cause sensitisation by skin contact.

Eye contact Causes 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 Dry chemicals. Foam. Water spray.

Special hazards arising from the substance or mixture

Hazardous combustion

Thermal decomposition or combustion products may include the following substances:

Carbon monoxide (CO). Carbon dioxide (CO2).

Advice for firefighters

products

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Protective actions during

firefighting

Avoid breathing fire gases or vapors. Cool containers exposed to heat with water spray and

remove them from the fire area if it can be done without risk.

Special protective equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

for firefighters cl

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. Keep

unnecessary and unprotected personnel away from the spillage. Avoid inhalation of vapors and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate.

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 safe to do so. Eliminate all sources of ignition. Absorb spillage with sand or other

inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Reference to other sections For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions Handle all packages and containers carefully to minimize spills. Avoid inhalation of vapors and

contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety

data sheet.

Advice on general occupational hygiene

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.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at -40 degrees C. 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-hour TWA): 0.1

Exposure controls

Protective equipment





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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 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 Properties

Information on basic physical and chemical properties

Appearance Paste.

Color Silver.

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: Acids. Alkalis. Oxidizing agents. Reducing

agents.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

May polymerize.

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

Materials to avoid Acids. Alkalis. Oxidizing agents. Reducing 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 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion May cause discomfort if swallowed.

Skin Contact Causes skin irritation. May cause sensitisation by skin contact.

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Eye contact Causes serious eye damage.

Acute and chronic health

hazards

Suspected of causing genetic defects.

12. Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Toxicity

Acute toxicity - fish Not available.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

General information 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) UN3082

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 SUBSTANCES, LIQUID, N.O.S. (CONTAINS Silver,

Bisphenol A Diglycidyl Ether Resin)

Transport hazard class(es)

DOT hazard class 9

DOT hazard label 9

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

Transport labels



DOT 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

Regulatory ReferencesProprietary 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 or exempt:

Silver

1,000 lbs (454 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are required to be listed.

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SARA 313 Emission Reporting

The following ingredients are listed or exempt:

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 or exempt:

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 or exempt:

Silver

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Silver

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Silver

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Silver

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

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 or exempt.

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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 7/22/2016

Revision 1

Hazard statements in full H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects.

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.