

SAFETY DATA SHEET EPO-TEK® H20E-8 PMF Syringe

1. Identification

Product identifier

Product name EPO-TEK® H20E-8 PMF Syringe

Product number H20E-8

Recommended use of the chemical and restrictions on use

Application Adhesive.

Uses advised against Use only for intended applications.

Details of the supplier of the safety data sheet

Supplier Epoxy Technology, Inc.

14 Fortune Drive Billerica, MA 01821

USA

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www.epotek.com, SDS@epotek.com

Emergency telephone number

Emergency telephone ChemTel: +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

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.

H411 Toxic to aquatic life with long lasting effects.

EPO-TEK® H20E-8 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342+P311 If experiencing respiratory symptoms: Call a poison center/ doctor.
P501 Dispose of contents/ container in accordance with national regulations.

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

3. Composition/information on ingredients

Substances

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 1-5%

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

EPO-TEK® H20E-8 PMF Syringe

Reactive Diluent <1%

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 is displayed in Section 16.

Product name EPO-TEK® H20E-8 PMF Syringe

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 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 May cause an asthma-like shortness of breath. Irritation of nose, throat and airway. Vapors

may cause headache, fatigue, dizziness and nausea.

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. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

Hazardous combustion Thermal decomp

Thermal decomposition or combustion products may include the following substances:

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

Advice for firefighters

Protective actions during

firefighting

products

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

for firefighters

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

clothing.

EPO-TEK® H20E-8 PMF Syringe

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Environmental precautions 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 Handle all packages and containers carefully to minimize spills. Avoid contact with skin and

eyes

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 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°C. Keep container tightly sealed when not in use.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Silver

Long-term exposure limit (8-hour TWA): ACGIH 0.1 mg/m³

Short-term exposure limit (15-minute): ACGIH

ACGIH = American Conference of Governmental Industrial Hygienists.

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.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

EPO-TEK® H20E-8 PMF Syringe

Hygiene measures Provide eyewash station. Do not smoke in work area. Wash 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 No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Paste.

Color Silver.

Odor Mild.

Odor threshold No specific test data are available.

pH No specific test data are available.

Melting point No specific test data are available.

Initial boiling point and range No specific test data are available.

Flash point > 93°C

Evaporation rate < BuAc

Flammability (solid, gas) No specific test data are available.

Upper/lower flammability or

explosive limits

No specific test data are available.

Vapor pressure No specific test data are available.

Vapor density > 1

Relative density

No specific test data are available.

Partition coefficient

No specific test data are available.

Auto-ignition temperature

No specific test data are available.

Decomposition Temperature

No specific test data are available.

Viscosity

No specific test data are available.

Other information None.

10. Stability and reactivity

Reactivity The following materials may react violently with the product: Strong oxidizing agents. Strong

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 Strong oxidizing agents. Strong reducing agents.

EPO-TEK® H20E-8 PMF Syringe

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

Acute toxicity - oral

ATE oral (mg/kg) 6,837.61

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.

12. Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Acute aquatic 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.

Partition coefficient No specific test data are available.

Mobility in soil

Mobility The product has poor water-solubility.

Other adverse effects

Other adverse effects Not known.

13. Disposal considerations

Waste treatment methods

Disposal methodsDispose 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)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

EPO-TEK® H20E-8 PMF Syringe

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Silver)

Transport hazard class(es)

DOT hazard class 9

DOT hazard label 9

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

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

Not applicable.

15. Regulatory information

and the IBC Code

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.

EPO-TEK® H20E-8 PMF Syringe

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.

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 not listed or exempt:

Silver

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are required to be listed.

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.

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.

EPO-TEK® H20E-8 PMF Syringe

Philippines - PICCS

All the ingredients are listed or exempt.

16. Other information

Revision date 5/15/2018

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.