

# SAFETY DATA SHEET EPO-TEK® E415G PMF Syringe

#### 1. Identification

**Product identifier** 

Product name EPO-TEK® E415G PMF Syringe

Product number E415G

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

(978) 667-3805 (978) 663-9782

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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 2 - H351

**Environmental hazards** Aquatic Chronic 2 - H411

#### Label elements

## **Pictogram**









Signal word

Danger

**Hazard statements** H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

# **EPO-TEK® E415G PMF Syringe**

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

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

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.

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

Contains

Polyoxypropylenediamine, Resorcinol Diglycidyl Ether

#### 3. Composition/information on ingredients

#### **Mixtures**

Silver 60-100%

CAS number: 7440-22-4

Classification

Aquatic Chronic 2 - H411

## Polyoxypropylenediamine 5-10%

CAS number: 9046-10-0

#### Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318

## Resorcinol Diglycidyl Ether 5-10%

CAS number: 101-90-6

#### Classification

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

Muta. 2 - H341

Carc. 2 - H351

The full text for all hazard statements is 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.

# **EPO-TEK® E415G PMF Syringe**

**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. Suspected of causing cancer.

**Inhalation** Gas or vapor in high concentrations may irritate the respiratory system. 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 severe burns. May cause sensitisation by skin contact. May cause an allergic skin

reaction.

**Eye contact** Causes serious eye damage.

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

#### 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

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.

#### 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

# **EPO-TEK® E415G PMF Syringe**

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** Pregnant or breastfeeding women should not work with this product if there is any risk of

exposure. 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°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.

#### 8. Exposure Controls/personal protection

## **Control parameters**

## Occupational exposure limits

Silver

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

#### **Exposure controls**

## Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Personal protection Pregnant or breastfeeding women should not work with this product if there is any risk of

exposure.

**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 Pregnant or breastfeeding women should not work with this product if there is any risk of

exposure. Provide eyewash station and safety shower. 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.

# **EPO-TEK® E415G PMF Syringe**

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. Odor Mild.

Odor threshold No specific test data are available.

Ηд 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. No specific test data are available.

Upper/lower flammability or

explosive limits

No specific test data are available. Vapor pressure

Vapor density > 1

Relative density No specific test data are available.

Solubility(ies) Slightly soluble in water.

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 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

# **EPO-TEK® E415G PMF Syringe**

#### Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 3,453.04

Acute toxicity - dermal

**ATE dermal (mg/kg)** 15,873.02

**Inhalation** Gas or vapor in high concentrations may irritate the respiratory system. 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 severe burns. May cause sensitisation by skin contact. May cause an allergic skin

reaction.

**Eye contact** Causes serious eye damage.

Acute and chronic health

hazards

Suspected of causing cancer. Suspected of causing genetic defects.

## 12. Ecological Information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish No information available.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

**Bio-Accumulative Potential** No information available.

Partition coefficient No specific test data are available.

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 via a licensed waste disposal contractor.

#### 14. Transport information

**UN Number** 

UN No. (TDG) 2735

**UN No. (IMDG)** 2735

UN No. (ICAO) 2735

**UN No. (DOT)** UN2735

UN proper shipping name

# **EPO-TEK® E415G PMF Syringe**

**Proper shipping name (TDG)** AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

Proper shipping name (DOT) AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)

#### Transport hazard class(es)

DOT hazard class 8

DOT hazard label 8

TDG class 8

TDG label(s) 8

IMDG Class 8

ICAO class/division 8

#### Transport labels



## DOT transport labels



#### Packing group

TDG Packing Group

IMDG packing group

ICAO packing group

DOT packing group III

#### **Environmental hazards**

## **Environmentally Hazardous Substance**



## Special precautions for user

IMDG Code segregation 18. Alkalis

group

EmS F-A, S-B

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.

## **EPO-TEK® E415G PMF Syringe**

#### **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.

#### SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Silver

Resorcinol Diglycidyl Ether

#### **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

The following ingredients are listed:

Resorcinol Diglycidyl Ether

Known to the State of California to cause cancer.

#### California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

Silver

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

The following ingredients are listed or exempt:

Resorcinol Diglycidyl Ether

#### Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Silver

Resorcinol Diglycidyl Ether

## 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

Resorcinol Diglycidyl Ether

# **EPO-TEK® E415G PMF Syringe**

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

The following ingredients are listed or exempt:

Silver

Resorcinol Diglycidyl Ether

#### Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Silver

Resorcinol Diglycidyl Ether

#### 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

Some of 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 9/27/2018

Revision 1

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

# **EPO-TEK® E415G PMF Syringe**

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.