

# SAFETY DATA SHEET EPO-TEK 320-3 Part A

### 1. IDENTIFICATION

Product NameEPO-TEK 320-3 Part AProduct No.EPO-TEK 320-3 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 Black.
Odor Mild.

**GHS Pictogram** 







Signal Word	Danger
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Hazard Statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H371 May cause damage to organs.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements** 

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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.

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

**GHS Classification** 

Physical and Chemical Hazards Not classified.

Human health Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Irrit. 2 -

 $H315; Eye\ Dam.\ 1-H318; Skin\ Sens.\ 1-H317; STOT\ SE\ 2-H335,$ 

H371;STOT SE 3 - H335, H371

Environment Aquatic Chronic 2 - H411

### Inhalation

Irritating to respiratory system. Harmful by inhalation.

#### Ingestion

Harmful if swallowed. May cause stomach pain or vomiting. May cause chemical burns in mouth, oesophagus and stomach.

# Skin Contact

May cause sensitization by skin contact. Irritating to skin. Harmful in contact with skin.

### Eye Contact

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of serious damage to eyes.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Epoxy Resin Blend 30-60%

CAS No.: Proprietary EC No.: Proprietary

GHS Classification

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

Polar Activator 1-5%

CAS No.: Proprietary EC No.: Proprietary

**GHS Classification** 

Flam. Liq. 2 - H225; Acute Tox. 3 - H301; Acute Tox. 3 - H311; Acute Tox. 3 - H331; STOT SE 1 - H370

Reactive Diluent 10-30%

CAS No.: Proprietary EC No.: Proprietary

**GHS Classification** 

Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317

### 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

Vapors may cause headache, fatigue, dizziness and nausea. Irritation of nose, throat and airway.

### Ingestion

May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

### Skin Contact

Skin irritation. Allergic rash.

### 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. Carbon dioxide (CO2).

### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### Special Fire Fighting Procedures

Avoid breathing fire vapors. Water spray should be used to cool containers.

### 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 onto the ground or into water courses. 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. Observe good chemical hygiene practices. Provide good ventilation.

### Storage

Store at moderate temperatures in dry, well ventilated area. 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
Polar Activator	ACGIH	200 ppm		250 ppm		Skin
Polar Activator	PEL	200 ppm	260 mg/m3		_	

COMPONENT			II.	OLH
Polar Activator			6	6000 ppm

ACGIH=American Conference of Governmental Industrial Hygienists.

Skin: Danger of cutaneous absorption. (ACGIH)

### Protective Equipment





### **Process Conditions**

Provide eyewash station.

# **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 made of: Impermeable material.

### Eye Protection

Wear tight-fitting goggles or 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 Black.
Odor Mild.

Solubility Slightly soluble in water.

 Vapor density (air=1)
 >1

 Evaporation rate
 <BuAc</td>

 Flash point (°C)
 93

# 10. STABILITY AND REACTIVITY

# Reactivity

Reaction with: Strong oxidizing agents.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

Materials To Avoid

Strong oxidizing substances.

Hazardous Decomposition Products

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

### 11. TOXICOLOGICAL INFORMATION

# Toxicological Information on Ingredients:

Reactive Diluent (CAS: Proprietary)

Toxic Dose 1 - LD 50

1, 163 mg/kg (oral, rat)

Toxic Dose 2 - LD 50

1, 130 mg/kg (dermal, rabbit)

Polar Activator (CAS: Proprietary)

Toxic Dose 1 - LD 50

6, 200 mg/kg (oral, rat)

Toxic Dose 2 - LD 50

15, 800 mg/kg (dermal, rabbit)

### 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

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

# Acute Fish Toxicity

Very toxic to aquatic organisms.

### Degradability

There are no data on the degradability of this product.

### Bioaccumulative potential

The product contains potentially bio-accumulating substances.

### Mobility:

Semi-mobile.

### Other adverse effects

Not known.

# 13. DISPOSAL CONSIDERATIONS

# Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

9

### 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. (Epoxy Resin Blend)

TDG Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin Blend)

**DOT Hazard Class** 

9

DOT Hazard Label

 Class 9

 TDG Class
 9

 TDG Label(s)
 9

 IMDG Class
 9

Transport Labels

ICAO Class



 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.

Polar Activator; 5, 000 lbs (2270 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

The following ingredients are listed.

Polar Activator

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.

Polar Activator

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

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

Polar Activator

Rhode Island "Right To Know" List

The following ingredients are listed.

Polar Activator

Minnesota "Right To Know" List

The following ingredients are listed.

Polar Activator

New Jersey "Right To Know" List

The following ingredients are listed.

Polar Activator

Pennsylvania "Right To Know" List

The following ingredients are listed.

Polar Activator

# 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

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 03/26/2015

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.



# SAFETY DATA SHEET EPO-TEK 320-3 Part B

# 1. IDENTIFICATION

Product NameEPO-TEK 320-3 Part BProduct No.EPO-TEK 320-3 Part B

<u>Identified uses</u> Adhesive.

Supplier Epoxy Technology, Inc.

14 Fortune Drive Billerica, MA 01821

USA

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Emergency Telephone (800) 255-3924

# 2. HAZARD(S) IDENTIFICATION

Appearance Liquid
Color Amber.
Odor Mild.

**GHS** Pictogram



Signal Word Danger

**Hazard Statements** 

H302 Harmful if swallowed. H315 Causes skin irritation.

H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary Statements

P271 Use only outdoors or in a well-ventilated area.

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.

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

**GHS Classification** 

Physical and Chemical Hazards Not classified.

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

Environment Not classified.

Inhalation

Irritating to respiratory system.

Ingestion

May cause stomach pain or vomiting. Harmful if swallowed.

Skin Contact

Irritating to skin.

Eye Contact

Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of corneal damage.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substituted Imidazole Blend 60-100%

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. 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 irritation persists after washing.

#### **Eve 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

Irritation of nose, throat and airway. Upper respiratory irritation. Vapors may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.

### Skin Contact

Skin irritation.

### **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. Carbon dioxide (CO2).

# Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# Special Fire Fighting Procedures

Avoid breathing fire 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**

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. Do not handle broken packages without protective equipment. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors.

#### Storage

Store at moderate temperatures in dry, well ventilated area. 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

# **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

Wear protective gloves.

# Eye Protection

Wear tight-fitting goggles or 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. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid
Color Amber.
Odor Mild.

Solubility Soluble in water.

 Vapor density (air=1)
 >1

 Evaporation rate
 <BuAc</td>

 Flash point (°C)
 93

# 10. STABILITY AND REACTIVITY

### Reactivity

Reaction with: Strong oxidizing agents. Strong reducing agents.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with oxidizers or reducing agents. Avoid heat, flames and other sources of ignition.

Materials To Avoid

Strong oxidizing substances. Strong reducing agents.

Hazardous Decomposition Products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

# 11. TOXICOLOGICAL INFORMATION

# Toxicological information

No information available.

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Not regarded as dangerous for the environment.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

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)

None of the ingredients are listed.

### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

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CAA Accidental Release Prevention

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OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

# **US State Regulations**

# California Proposition 65 Carcinogens and Reproductive Toxins

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None of the ingredients are listed.

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Massachusetts "Right To Know" List

None of the ingredients are listed.

Rhode Island "Right To Know" List

None of the ingredients are listed.

Minnesota "Right To Know" List

None of the ingredients are listed.

New Jersey "Right To Know" List

None of the ingredients are listed.

Pennsylvania "Right To Know" List

None of the ingredients are listed.

# 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

All ingredients are listed or exempt.

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 03/26/2015

Revision 1

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