

# SAFETY DATA SHEET EPO-TEK OE188-3 Part A

# 1. IDENTIFICATION

Product NameEPO-TEK OE188-3 Part AProduct No.EPO-TEK OE188-3 Part A

Identification No.UN3082Identified usesAdhesive.

Supplier Epoxy Technology, Inc. 14 Fortune Drive

Billerica. MA 01821

USA

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

Emergency Telephone (800) 255

# 2. HAZARD(S) IDENTIFICATION

AppearancePasteColorGrey.OdorMild.

**GHS Pictogram** 





Signal Word Warning

**Hazard Statements** 

H315 Causes skin irritation.

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

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

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

P313 Get medical advice/attention.

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

Contains Epoxy Phenol Novolac

**GHS Classification** 

Physical and Chemical Hazards Not classified.

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

Environment Aquatic Chronic 2 - H411

Human Health

Contains a substance which may be potentially carcinogenic.

Inhalation

Gas or vapor in high concentrations may irritate respiratory system.

Ingestion

May cause discomfort if swallowed.

#### Skin Contact

May cause sensitization by skin contact. Irritating to skin.

Eye Contact

Irritating to eyes.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Epoxy Phenol Novolac 30-60%

CAS No.: 9003-36-5 EC No.:

**GHS Classification** 

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

#### 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

Irritating and may cause redness and pain.

# 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 handle broken packages without protective equipment. 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 Quartz (dust)\* ACGIH 0.025 mg/m3 A2

COMPONENT
Quartz (dust)\*

1DL H
25 mg/m3

ACGIH=American Conference of Governmental Industrial Hygienists.

A2: Suspected Human Carcinogen.

\*This product contains Quartz, which is suspected of causing cancer when inhaled in fine particulate form. Quartz 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 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 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

AppearancePasteColorGrey.OdorMild.

Solubility Slightly soluble in water.

Vapor density (air=1) >1
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.

Materials To Avoid

Strong oxidizing substances. Strong reducing agents.

Hazardous Decomposition Products

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

# 11. TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients:

Epoxy Phenol Novolac (CAS: 9003-36-5)

Toxic Dose 1 - LD 50

>5, 000 mg/kg (oral, rat)

Quartz (CAS: 14808-60-7)\*

Carcinogenicity:

IARC Carcinogenicity

IARC Group 1 Carcinogenic to humans.

NTP - Carcinogenicity

Known human carcinogen

OSHA - Carcinogenicity

Not listed.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

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

Acute Fish Toxicity

Very toxic to aquatic organisms.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product has poor water-solubility.

Other adverse effects

Not known.

#### 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

# 14. TRANSPORT INFORMATION

<u>UN No. (DOT/TDG)</u> UN3082 UN No. (IMDG) 3082

<sup>\*</sup>This product contains Quartz, which is suspected of causing cancer when inhaled in fine particulate form. Quartz 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.

UN No. (ICAO) 3082

<u>DOT Proper Shipping Name</u> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac)

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

**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)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

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)

None of the ingredients are listed.

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

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

Quartz

Rhode Island "Right To Know" List

The following ingredients are listed.

Quartz

Minnesota "Right To Know" List

The following ingredients are listed.

Quartz

New Jersey "Right To Know" List

The following ingredients are listed.

Quartz

Pennsylvania "Right To Know" List

The following ingredients are listed.

Quartz

# 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

04/17/2015

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 OE188-3 Part B

# 1. IDENTIFICATION

Product NameEPO-TEK OE188-3 Part BProduct No.EPO-TEK OE188-3 Part B

Identification No.UN3267Identified usesAdhesive.

Supplier Epoxy Technology, Inc.

14 Fortune Drive Billerica. MA 01821

USA

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

Emergency Telephone (800) 255-3924

# 2. HAZARD(S) IDENTIFICATION

AppearanceLiquidColorAmber.OdorSlight odor.

**GHS Pictogram** 



Signal Word Danger

**Hazard Statements** 

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H361d CLP only - Suspected of damaging the unborn child.

**Precautionary Statements** 

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.
P310 Immediately call a POISON CENTER or doctor/physician.

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

Contains Imidazole

**GHS Classification** 

Physical and Chemical Hazards Not classified.

Human health Acute Tox. 4 - H302; Skin Corr. 1B - H314; Repr. 2 - H361d

Environment Not classified.

Human Health

Contains a substance/a group of substances which may cause harm to the unborn child.

Inhalation

Gas or vapor in high concentrations may irritate respiratory system.

Ingestion

Harmful if swallowed.

Skin Contact

Causes burns.

Eye Contact

Causes burns.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Imidazole 30-60%

CAS No.: 288-32-4 EC No.:

**GHS Classification** 

Acute Tox. 4 - H302; Skin Corr. 1B - H314; Repr. 2 - H361d

Substituted Imidazole Blend 60-100%

CAS No.: Proprietary EC No.: Proprietary

**GHS Classification** 

Acute Tox. 4 - H302; Eye Dam. 1 - H318

# 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

# Ingestion

May cause chemical burns in mouth and throat.

Skin Contact

Burns can occur.

Eye Contact

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

#### 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

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

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

Use protective gloves, goggles and suitable protective clothing.

**Environmental Precautions** 

Avoid release to the environment.

Spill Clean Up Methods

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with sand or other inert absorbent. Transfer to a container for disposal.

Reference to other sections

For personal protection, see section 8.

# 7. HANDLING AND STORAGE

#### Handling

Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Provide good ventilation.

Storage

Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame. Keep containers tightly closed. Store away from: Oxidizing material. Reducing Agents.

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

Use protective gloves.

Eye Protection

Wear approved safety goggles.

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. 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

AppearanceLiquidColorAmber.OdorSlight odor.

Solubility Slightly soluble in water.

Bulk Density 1.02 kg/m3

Vapor density (air=1)>1Evaporation 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 contact with oxidizers or reducing agents.

Materials To Avoid

Strong oxidizing substances. Strong reducing agents.

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. In case of fire, toxic gases (CO, CO2,

NOx) may be formed.

# 11. TOXICOLOGICAL INFORMATION

Reproductive Toxicity:

Possible reproductive impact.

Toxicological Information on Ingredients:

Imidazole (CAS: 288-32-4)

Toxic Dose 1 - LD 50 970 mg/kg (oral, rat)

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Not known.

Degradability

The product is moderately biodegradable.

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.

# 14. TRANSPORT INFORMATION

 UN No. (DOT/TDG)
 UN3267

 UN No. (IMDG)
 3267

 UN No. (ICAO)
 3267

<u>DOT Proper Shipping Name</u> CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Imidazole)

TDG Proper Shipping Name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Imidazole)

**DOT Hazard Class** 

8

**DOT Hazard Label** 

 Corrosive
 TDG Class
 8

 TDG Label(s)
 8

 IMDG Class
 8

 ICAO Class
 8

Transport Labels



 DOT Pack Group
 III

 IMDG Pack Group
 III

 Air Pack Group
 III

Environmentally Hazardous Substance/Marine Pollutant

No.

EMS F-A, S-B

#### 15. REGULATORY INFORMATION

# **US Federal Regulations**

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

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SARA Extremely Hazardous Substances EPCRA Reportable Quantities

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SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

# **US State Regulations**

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None of the ingredients are listed.

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

None of the ingredients are listed.

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

04/17/2015

Revision

1

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