



SAFETY DATA SHEET  
EPO-TEK 302-3M Black Part A

### 1. IDENTIFICATION

<u>Product Name</u>	EPO-TEK 302-3M Black Part A
<u>Product No.</u>	EPO-TEK 302-3M Black Part A
<u>Identification No.</u>	UN3082
<u>Identified uses</u>	Adhesive.
<u>Supplier</u>	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA www.epotek.com (978) 667-3805 (978) 663-9782
<u>Emergency Telephone</u>	(800) 255-3924

### 2. HAZARD(S) IDENTIFICATION

<u>Appearance</u>	Liquid
<u>Color</u>	Clear
<u>Odor</u>	Mild.
<u>GHS Pictogram</u>	



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

Inhalation

May cause irritation to the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin Contact

May cause sensitization by skin contact. Irritating to skin.

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## Eye Contact

May cause severe irritation to eyes.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Epoxy Phenol Novolac	60-100%
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

Irritation of nose, throat and airway.

##### Ingestion

May cause discomfort if swallowed.

##### Skin Contact

Skin irritation. Allergic rash.

##### Eye Contact

May cause severe irritation to eyes.

#### 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. Water spray.

##### 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

Do not discharge onto the ground or into water courses. Avoid release to the environment.

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## 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. Avoid inhalation of vapors. 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

### Protective Equipment



### Process Conditions

Provide eyewash station.

### Engineering Measures

Provide adequate ventilation.

### Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

### Hand Protection

Wear protective gloves.

### 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

<u>Appearance</u>	Liquid
<u>Color</u>	Clear
<u>Odor</u>	Mild.
<u>Solubility</u>	Insoluble in water
<u>Evaporation rate</u>	<BuAc
<u>Flash point (°C)</u>	93

## 10. STABILITY AND REACTIVITY

### Reactivity

Violent reaction with: Strong oxidizing agents.

### Stability

Stable under normal temperature conditions.

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## Hazardous Polymerisation

Will not occur.

## Conditions To Avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Reacts violently with strong oxidizing substances.

## Materials To Avoid

Strong oxidizing substances.

## Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

## 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)

## 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

The product is biodegradable.

### Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

### 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
<u>UN No. (IMDG)</u>	3082
<u>UN No. (ICAO)</u>	3082
<u>DOT Proper Shipping Name</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac)
<u>TDG Proper Shipping Name</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac)
<u>DOT Hazard Class</u>	9
<u>DOT Hazard Label</u>	
Class 9	
<u>TDG Class</u>	9
<u>TDG Label(s)</u>	9
<u>IMDG Class</u>	9
<u>ICAO Class</u>	9
<u>Transport Labels</u>	



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

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

## EPO-TEK 302-3M Black Part A

### 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

<u>Revision Date</u>	09/04/2014
<u>Revision</u>	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 302-3M Black Part B

### 1. IDENTIFICATION

<u>Product Name</u>	EPO-TEK 302-3M Black Part B
<u>Product No.</u>	EPO-TEK 302-3M Black Part B
<u>Identification No.</u>	UN2735
<u>Identified uses</u>	Adhesive.
<u>Supplier</u>	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA www.epotek.com (978) 667-3805 (978) 663-9782
<u>Emergency Telephone</u>	(800) 255-3924

### 2. HAZARD(S) IDENTIFICATION

<u>Appearance</u>	Liquid
<u>Color</u>	Clear
<u>Odor</u>	Mild.
<u>GHS Pictogram</u>	



Signal Word Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H410	Very 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.
P310	Immediately call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container in accordance with local regulations.

Contains

4-Nonyl phenol  
Polyoxypropylenediamine

GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H302; Skin Corr. 1B - H314
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Inhalation

May cause irritation to the respiratory system.

Ingestion

Harmful if swallowed. May cause stomach pain or vomiting.

Skin Contact

Harmful in contact with skin. Causes burns.

# EPO-TEK 302-3M Black Part B

## Eye Contact

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

4-Nonyl phenol	30-60%
CAS No.: 84852-15-3	EC No.:
GHS Classification Acute Tox. 4 - H302; Skin Corr. 1B - H314; Aquatic Acute 1 - H400	
Polyoxypropylenediamine	30-60%
CAS No.: 9046-10-0	EC No.:
GHS Classification Acute Tox. 5 - H303; Skin Corr. 1B - H314	

### 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

##### Inhalation

Irritation of nose, throat and airway.

##### Ingestion

May cause stomach pain or vomiting.

##### Skin Contact

Severe irritation. Blistering may occur. May cause serious chemical burns to the skin.

##### 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. Water spray.

##### Hazardous combustion products

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



# EPO-TEK 302-3M Black Part B

## 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

Do not allow ANY environmental contamination.

### Spill Clean Up Methods

Collect in containers and seal securely.

### 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. Provide good ventilation.

### Storage

Store at moderate temperatures in dry, well-ventilated area. Keep container tightly sealed when not in use.

### Storage Class

Corrosive 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

Use protective gloves.

### Eye Protection

Wear approved safety goggles.

### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor 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

<u>Appearance</u>	Liquid
<u>Color</u>	Clear
<u>Odor</u>	Mild.
<u>Bulk Density</u>	.95 kg/l
<u>Vapor density (air=1)</u>	>1
<u>Evaporation rate</u>	<BuAc

Flash point (°C)

93

**10. STABILITY AND REACTIVITY**Reactivity

Violent reaction with: Acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents.

Stability

Stable under normal temperature conditions.

Hazardous Polymerisation

Will not occur.

Conditions To Avoid

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

Materials To Avoid

Strong acids. Strong alkalis. Strong oxidizing substances. Strong reducing agents.

Hazardous Decomposition ProductsThermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.**11. TOXICOLOGICAL INFORMATION**Toxicological Information on Ingredients:Polyoxypropylenediamine (CAS: 9046-10-0)Toxic Dose 1 - LD 50

2, 880 mg/kg (oral, rat)

Toxic Dose 2 - LD 50

2, 980 mg/kg (dermal, rabbit)

**12. ECOLOGICAL INFORMATION**Acute Fish Toxicity

Very toxic to aquatic organisms.

Degradability

The product is moderately biodegradable.

Bioaccumulative potential

Will not bio-accumulate.

Mobility:

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**

<u>UN No. (DOT/TDG)</u>	UN2735
<u>UN No. (IMDG)</u>	2735
<u>UN No. (ICAO)</u>	2735
<u>DOT Proper Shipping Name</u>	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine, 4-Nonyl phenol)
<u>TDG Proper Shipping Name</u>	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine, 4-Nonyl phenol)

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



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.

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

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

At least one ingredient is not listed.

Canada – DSL/NDSL

At least one ingredient is not listed.

US - TSCA

At least one ingredient is not listed.

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

Australia - AICS

At least one ingredient is not listed.

Japan – MITI

At least one ingredient is not listed.

Korea - KECI

At least one ingredient is not listed.

China - IECSC

At least one ingredient is not listed.

Philippines – PICCS

At least one ingredient is not listed.

16. OTHER INFORMATION

<u>Revision Date</u>	09/04/2014
<u>Revision</u>	1

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