

## Safety Data Sheet (SDS)

### 1. Identification

PRODUCT NAME: EMECOLE 40, PART A

SYNONYM: Thermosetting Resin

CHEMICAL FAMILY: Epoxide

MANUFACTURER / SUPPLIER: EMECOLE, INC.

P.O. Box 7486, Romeoville, IL 60446

info@emecole.com

EMERGENCY TELEPHONE: Contact InfoTrac1-800-535-5053

OUTSIDE U.S. and CANADA: Contact InfoTrac 1-353-323-3500

NOTE: InfoTrac emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

### 2. Hazard(s) Identification

Signal Word: **WARNING**



**Skin Contact:** (rabbit) Exposure may cause moderate irritation. **May cause allergic skin reaction**

**Eye Contact:** (rabbit) May cause mild eye irritation.

**Ingestion:** Oral LD0: (rabbit) > 4000 mg/kg

**Medical Conditions Generally Aggravated by Exposure:** Allergy, eczema, skin conditions

**Precautionary Statements:** Do not handle until all safety precautions have been read and understood. Do not breathe vapors. In case of inadequate ventilation wear respiratory protection. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Store locked up. Keep away from children. Dispose of contents and container in accordance with applicable local, regional and national regulations.

**Hazard Statements:**

- Causes mild irritation to skin and eyes.
- May cause allergy or asthma symptoms.
- May cause an allergic skin reaction.
- May cause respiratory irritation.

**Effects of Overexposure:** Irritation, sensitization and dermatitis.

**Carcinogenicity:** In order to comply with California Proposition 65, we feel obligated to advise that some of our products may conceivably contain trace contaminants of some of the listed chemicals. While not necessarily added to our products as ingredients, some listed chemicals may be present in the raw materials from suppliers and over which we have no control. Therefore, even though some of the listed substances may not be present, a significant risk as defined by the regulations in order to comply with California law, we feel obligated to make the following statement:

**Warning:** Our products may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive toxicants.

OSHA	ACGIH	NTP	IARC	OTHER
N/A	N/A	N/A	N/A	N/A

### 3. Composition / Information on Ingredients

INGREDIENT	% BY WEIGHT	EXPOSURE LIMITS	CAS #
Diglycidyl Ether Resin Mixture	65 - 95	NE	25068-38-6
Proprietary Diluent	5 - 35	50 PPM/PEL	98-00-0
N-Butyl glycidylether	0 - 10	_____	2426-08-6

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### 4. First Aid Measures

**Eyes:** Open lids wide and flush with large quantities of water for at least 15 minutes. If irritation develops, seek medical attention

**Skin:** Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse, discard shoes. Consult a physician if irritation develops.

**Ingestion:** Do not induce vomiting without medical advice. If conscious give water. Prevent aspiration of vomit (turn victim's head to side). Consult physician

**Inhalation:** Remove the patient from the contaminated area to fresh air. Administer oxygen or artificial respiration as needed. Call a physician if after effects occur.

### 5. Fire Fighting Measures

**Flash Point:** > 490 °F CL

**Explosive Limits:** LEL – NE

**Flammable Limits:** UK

**Extinguishing Media:** Carbon dioxide, water spray, foam. Where the fire is of major proportions, water spray may also be used. Water or foam may cause frothing if liquid is burning, but it still may be a useful extinguishing agent if carefully applied to the fire.

**Protective equipment:** In case of fire, use normal fire fighting equipment including a NIOSH approved, self contained breathing apparatus (SCBA). Use water to cool containers.

**Explosion Hazards:** Decomposition and combustion products may be toxic.

### 6. Accidental Release Measures

**Small Spill:** Avoid all personal contact. Absorb with rag. Wear proper personal protective equipment. Place in a chemical waste container for proper disposal.

**Large Spill:** Avoid all personal contact. Absorb with dry chemical absorbent, earth, sand or any other inert material. Wear proper personal protective equipment. Place in a chemical waste container for proper disposal. Flush contaminated areas with water.

**Disposal:** Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

### 7. Handling and Storage

**Storage:** Store in tightly sealed containers. Store in a cool, dry, well ventilated area away from heat and open flame. Protect from moisture.

**Handling:** Avoid contact with skin, eyes, and clothing. Do not take internally. Use personal protective equipment when transferring material to or from drums, totes or other containers. Safety glasses and gloves are the minimum protection. Additional precautions must be used when splash hazards are present.

**Other Precautions:** Avoid breathing vapors, use with good ventilation. Wash hands thoroughly with soap and water after every use.

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### 8. Exposure Controls / Personal Protection

**Respiratory Protection:** Avoid breathing vapors. Use adequate ventilation.

**Ventilation:** Good mechanical ventilation and local exhaust.

**Protective Gloves:** Rubber or polyethylene.

**Eye Protection:** Chemical splash goggles or safety glasses.

**Protective Clothing:** Wear impervious clothing and gloves. Materials may include butyl rubber, nitrile rubber, neoprene and Saranex coated Tyvek.

**Protective Equipment:** Disposable containers and paper on work area. Use of barrier cream recommended. Use appropriate equipment to prevent eye or skin contact.

**Other Precautions:** Wash hands thoroughly with soap and water after every use.

### 9. Physical and Chemical Properties

**VP:** N/A

**VD:** N/A

**Color:** Clear to Yellow

**Solubility In Water:** Slight

**SP GR:** 1.0 - 1.2

**% Volatile by VL:** < 3%

**Boiling Point:** > 200 °F

**Flash Point:** > 490 °F CL (254.5 °C)

### 10. Stability and Reactivity

**Stability:** Stable

**Reactivity: Incompatibility Materials to Avoid:** Strong oxidizers, strong acids or bases in bulk.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes and other organics.

**Conditions to Avoid:** Elevated temperatures, container contamination.

### 11. Toxicological Information

**Toxicological Data:** LD SOs provided are the lowest values for type of bisphenol A diglycidal ether resins used

**Oral LDO:** (rabbit) > 4000 mg/kg

**Routes of Entry:** Inhalation, skin contact.

**Effects of Overexposure:** Irritation, sensitization and dertitis.

**Medical Conditions By Exposure:** allergy eczema, skin conditions.

**Carcinogenic Categories:**

**NTP:** Not classified as a carcinogen    **IARC:** Not classified as a carcinogen    **OSHA:** Not classified as a carcinogen

### 12. Ecological Information

**Comments:** Not a marine pollutant.

## Safety Data Sheet (SDS)

### 13. Disposal Considerations

**Disposal:** Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Refer to RCRA 4 CFR 261 and/or any other appropriate federal, state or local requirements for proper classification information.

**Container Disposal:** Drums/containers should be decontaminated and either passed to an approved drum recycler or destroyed.

**RCRA/EPA Waste Information:** The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

### 14. Transport Information

**DOT (Domestic surface):** Shipping name; Compound resin. Not regulated (Class 55)

**IMO (Ocean):** Not restricted.

**ICAO (AIR):** Not restricted.

### 15. Regulatory Information

**TSCA Status:** A component of this product is contained on the chemical substance inventory list.

**CERCLA Reportable Quantity:** None

**SARA Title:** III

**Section 311/312 Hazard Categories:** None

**Section 313 Toxic Chemicals:** None

**State CA Proposition 65:** Contains < 10 ppm Epichlorohydrin CAS# 106-89-8

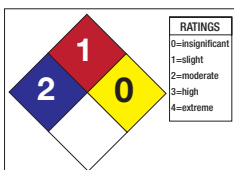
**RCRA Status:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24)

### 16. Other Information

All statements, technical information and recommendations contained herein are based upon available scientific test or data which we believe to be reliable since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. Emecole makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

**Personal Protection:** B

**NFPA Ratings:**



**HMIS Ratings:**



Avoid breathing vapors, use with good ventilation. Wash hands thoroughly with soap and water after every use.

## Safety Data Sheet (SDS)

### 1. Identification

PRODUCT NAME: EMECOLE 40, PART B  
 SYNONYM: Epoxy Hardener  
 CHEMICAL FAMILY: Modified Polyamine/Polyamide Composition  
 MANUFACTURER / SUPPLIER: EMECOLE, INC.  
 P.O. Box 7486, Romeoville, IL 60446  
 info@emecole.com  
 EMERGENCY TELEPHONE: Contact InfoTrac 1-800-535-5053  
 OUTSIDE U.S. and CANADA: Contact InfoTrac 1-353-323-3500

NOTE: InfoTrac emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

### 2. Hazard(s) Identification

**Signal Word:** WARNING



**Skin Contact:** Mild irritation.

**Eye Contact:** Polyamine resin - conjunctival irritant

**Ingestion:** Oral LD<sub>50</sub> (rat) < 5 CC/KG

**Medical Conditions Generally Aggravated by Exposure:** Allergy, eczema, skin conditions

**Precautionary Statements:** Do not handle until all safety precautions have been read and understood. Do not breathe vapors. In case of inadequate ventilation wear respiratory protection. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Store locked up. Keep away from children. Dispose of contents and container in accordance with applicable local, regional and national regulations.

**Signal Word:** DANGER



**Acute: Effects of Overexposure:** Can cause skin, respiratory and eye burns. High concentrations of vapor can cause irritation of respiratory tract, nausea, and vomiting.

**Chronic:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.

**Hazard Statements:**

Overexposure may cause burns to skin, respiratory and eyes.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.

**Carcinogenicity:** In order to comply with California Proposition 65, we feel obligated to advise that some of our products may conceivably contain trace contaminants of some of the listed chemicals. While not necessarily added to our products as ingredients, some listed chemicals may be present in the raw materials from suppliers and over which we have no control. Therefore, even though some of the listed substances may not be present, a significant risk as defined by the regulations in order to comply with California law, we feel obligated to make the following statement:

**Warning:** Our products may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive toxicants.

### 3. Composition / Information on Ingredients

INGREDIENT	% BY WEIGHT	EXPOSURE LIMITS	CAS #
Proprietary Polyamine/Polyamide Blend	80 - 90	N.E.	UK
Proprietary Diluent	0 - 5	10 PPM ACGIH TWA	98-00-0
Diethylene Triamine	< 5	1 PPM SKIN ACGIH	111-40-0
Nonyl Phenol	<15	N.E.	104-40 5

## Safety Data Sheet (SDS)

### 4. First Aid Measures

**Eyes:** Open lids wide and flush with large quantities of water for at least 15 minutes. Call a physician, preferably an eye specialist.

**Skin:** Immediately deluge skin with plenty of water. Remove contaminated clothing and shoes. cover the affected area with a sterile cloth. Do not apply greases or creams. Wash clothing before reuse, discard shoes. Consult a physician.

**Ingestion:** Do not induce vomiting without medical advice. If conscious give water. Prevent aspiration of vomit (turn victim's head to side). Consult physician

**Inhalation:** Remove the patient from the contaminated area to fresh air. Administer oxygen or artificial respiration as needed. Seek medical attention.

### 5. Fire Fighting Measures

**Flash Point:** 185 °F PMCC      **Flammable Limits:** Unknown

**Extinguishing Media:** Foam, dry chemicals, CO<sub>2</sub>. Where the fire is of major proportions, water spray may also be used. Water or foam may cause frothing if liquid is burning, but it still may be a useful extinguishing agent if carefully applied to the fire.

**Protective equipment:** In case of fire, avoid breathing smoke, use normal fire fighting equipment including a NIOSH approved, self contained breathing apparatus (SCBA). Use water to cool containers.

**Unusual fire and explosion hazards:** None

### 6. Accidental Release Measures

**Small Spill:** Absorb with inert material or scrape up. Wear proper personal protective equipment. Place in a chemical waste container for proper disposal.

**Large Spill:** Absorb with dry chemical absorbent, earth, sand or any other inert material. Wear proper personal protective equipment. Place in a chemical waste container for proper disposal. Flush contaminated areas with water.

**Disposal:** Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

### 7. Handling and Storage

**Storage:** Store in tightly sealed containers. Store in a cool, dry, well ventilated area away from heat and open flame. Protect from moisture.

**Handling:** Avoid contact with skin, eyes, and clothing. Do not take internally. Use personal protective equipment when transferring material to or from drums, totes or other containers. Safety glasses and gloves are the minimum protection. Additional precautions must be used when splash hazards are present.

## Safety Data Sheet (SDS)

### 8. Exposure Controls / Personal Protection

**Respiratory Protection:** Avoid breathing vapors. Use adequate ventilation.

**Ventilation:** Good mechanical ventilation and local exhaust.

**Protective Gloves:** Rubber or polyethylene.

**Eye Protection:** Chemical splash goggles or safety glasses.

**Protective Clothing:** Wear impervious clothing and gloves. Materials may include butyl rubber, nitrile rubber, neoprene and Saranex coated Tyvek.

**Protective Equipment:** Disposable containers and paper on work area. Use of barrier cream recommended. Use appropriate equipment to prevent eye or skin contact.

**Other Precautions:** Wash hands thoroughly with soap and water after every use.

### 9. Physical and Chemical Properties

**VP:** N.D.

**SP GR:** .98 - .99

**VD:** N.A

**% Volatile by VL:** < 3%

**Boiling Point:** Not Determined (> 200 °F)

**Solubility In Water:** Slight

**Flash Point:** 185 °F (PMCC)

**Evaporation Rate:** NA

### 10. Stability and Reactivity

**Stability:** Stable.

**Reactivity: Incompatibility Materials to Avoid:** Strong oxidizing agents, acids.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

**Conditions to Avoid:** Mixing with oxidizers or epoxy resins in quantities over 1#.

**Hazardous Polymerization:** Will not occur.

### 11. Toxicological Information

**Toxicological Data:** Polyamine Resin

**Oral LD0:** (rat) LD50-<5 CC/KG

**Routes of Entry:** Inhalation, skin contact.

**Acute:** Will cause burns to skin and eyes. High concentrations of vapor can cause irritation of respiratory tract, nausea, and vomiting.

**Chronic:** Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic response.

**Carcinogenic Categories:**

**NTP:** Not classified as a carcinogen    **IARC:** Not classified as a carcinogen    **OSHA:** Not classified as a carcinogen

### 12. Ecological Information

**Comments:** No information.

## Safety Data Sheet (SDS)

### 13. Disposal Considerations

**Disposal:** Any disposal practice must be in compliance with all federal, state and local laws and regulations. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Waste characterization and disposal compliance is the responsibility solely of the party generating the waste or deciding to discard or dispose of the material.

Refer to RCRA 4 CFR 261 and/or any other appropriate federal, state or local requirements for proper classification information.

**Container Disposal:** Drums/containers should be decontaminated and either passed to an approved drum recycler or destroyed.

**RCRA/EPA Waste Information:** The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

### 14. Transport Information

**DOT (Domestic surface):** Shipping name; Compound resin. Not regulated (Class 55)

**IMO (Ocean):** Not restricted.

**ICAO (AIR):** Not restricted.

### 15. Regulatory Information

**TSCA Status:** All ingredients are not required to be listed on the TSCA inventory

**SARA Title III:**

**Section 311/312 Hazard Categories:** This chemical is classified as a hazardous chemical due to the potential for allergic skin reaction.

**Section 313 Toxic Chemicals:** To the best of our knowledge this product contains no chemical subject to Sara Title III Section 313

**OSHA:** This chemical is classified as a hazardous chemical due to the potential for allergic skin reaction. Standard 29 CFR 1910.1200

**RCRA Status:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24)

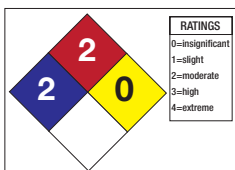
**CEPA Canadian Environmental Protection Act:** All ingredients in this product are listed on the DSL or are not required to be listed

### 16. Other Information

All statements, technical information and recommendations contained herein are based upon available scientific test or data which we believe to be reliable since we cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. Emecole makes no warranties, express or implied, and assumes no responsibility in connection with any use of this information.

**Personal Protection:** B

**NFPA Ratings:**



**HMIS Ratings:**



Avoid breathing vapors, use with good ventilation. Wash hands thoroughly with soap and water after every use.