



440LV EPOXY VTK3001, VTK3002, VTK3012, VTK3004, VTK3003, VTK3016

SAFETY DATA SHEET

1. GENERAL INFORMATION

Product name: 440LV Epoxy
Common name: Polyamine
Chemical family: Polyamine
Synonyms: Amines Liquid Corrosive
Product Use: Epoxy Bonding Agent
Manufacturer: Hog Slat, Inc.
P.O. Box 300
206 Fayetteville St.
Newton Grove, NC 28366
800-949-4647

Emergency Contact: CHEM TEL North America 800-255-3924 International 1-813-248-0585

2. HAZARDS IDENTIFICATION

GHS Classification

<u>Health Hazard</u>	<u>Category</u>
Skin Corrosion	1B
Serious Eye Damage	1
Skin Sensitization	1

Signal Word: **DANGER**



Hazard Statement

H314: Causes severe skin burns and eye damage
H317: May cause an allergic skin reaction

Precautionary Statement

Inhalation: Harmful if inhaled and may cause delayed lung injury. Can cause severe respiratory tract burns. Risk of serious damage to the lungs. May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Skin Contact: Causes skin burns.

Eye Contact: Causes eye burns. May cause blindness. Severe eye irritation.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Prolonged exposure: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, Eye disease, Skin Disorders and Allergies.

Hazards not Otherwise Classified

Corrosive



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Severe Eye Irritant
Severe Respiratory Irritant
Severe Skin Irritant
May Cause Sensitization by Skin Contact

3. COMPOSITION/INGREDIENT INFORMATION

Ingredients:

<u>Cas#</u> <u>TLV</u>	<u>Chemical Name</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGUH</u>
CE440 Part A				
25085-99-8	Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	>80%	NE	NA
68609-97-2	Aliphatic Glycidyl Ether	<20%	NE	NE
CE440 Part B				
2855-13-2	Isophorone Diamine	<70%	NE	NE
100-51-6	Benzyl Alcohol	>30%	NE	NE

4. FIRST AID MEASURES

General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.

Inhalation: If respiratory irritation occurs, go to fresh air, flood work area with fresh air. If breathing has stopped or is labored, give assisted respirations. If irritation continues seek medical attention.

Skin Contact: Immediately remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. Seek medical attention. Initiate and maintain continuous irrigation until the patient receives medical care. SOLVENTS SHOULD NOT BE USED because they carry the irritant into the skin.

Eye Contact: Flush the eyes with gentle and continuous flow of water for at least 15 minutes. If necessary, gently hold eyelids open during the flush. Immediately seek medical attention. If medical attention is not promptly available, continue to irrigate for one hour.

Ingestion: Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, turn victim's head to the side. Be sure to keep victim's head below hips to avoid aspiration of vomit into the lungs.

5. FIRE FIGHTING MEASURES

Special Fire Fighting Procedures: NFPA Class B-C extinguisher (dry chemical or foam) for Class 1C fires. Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers. Use fog nozzles if water is used. Use supplied breathing masks.

Protection of Firefighters: Fire may produce irritating, corrosive and/or toxic gases. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces SCBA. Structural firefighters protective clothing will only provided limited protection



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6. ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment: Splash Goggles, Gloves, Apron, Vapor Respirator

Personal Precautions: Keep people away from and upwind of spill/leak. Avoid inhalation of vapors and spray mists. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Follow facility/company's emergency plans.

Small Spills: Absorb with an inert material (sand, vermiculite). Sweep or scoop up and put into disposal containers. Flush area immediately with water (prevent water from entering waterways).

Large Spills: Dike area far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb with an inert material (sand, vermiculite). Sweep or scoop up into disposal containers. Flush area immediately with water (prevent water from entering waterways)

Regulatory Requirements: Follow applicable OSH regulations (29 CFR 1910.120).

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area or until spill clean-up has been completed.

7. HANDLING AND STORAGE

Handling Precautions: For professional use only. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Do not use solvent to thin. Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.

Storage Requirements: Store in cool/dry location. Do not allow material to freeze, as product may be damaged. Do not handle, store or open near an open flame, sources of heat or sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator

VENTILATION: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents containment dispersion into the work area controlling it as its source.

RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

PROTECTIVE CLOTHING/EQUIPMENT: Wear chemically protective gloves, boots and aprons to prevent prolonged or repeated skin contact. Wear protective goggles and face shield, per OSHA eye and face protection (29 CFR 1910.133).

CONTAMINATED EQUIPMENT: Separate contaminated work clothing from street clothing. Launder before reuse. Remove this material from your work shoes and clean personal protective equipment.

OTHER PRECAUTIONS: Never eat, drink or smoke in work areas.

This material is not listed by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	CE440 Part A (Clear)	CE440 Part B (Clear)
Physical State	Liquid	
Boiling Point:	ND	
Odor:	CE440 Part A (Mild)	CE440 Part B (Amine odor)
Freezing/Melting Point:	ND/NE	
pH:	ND	
Solubility:	Insoluble	
Vapor Pressure:	NE	
Vapor Density:	(Air = 1) > 1	
Spec Grav./Density:	CE440 Part A (1.17)	CE440 Part B (1.02)
VOC:	<5 g/L	
Flash Point:	>150°F	
Flash Point Method:	Pensky Martens Closed Cup	
Burning Rate:	No data available	
Autoignition Temp:	No data available	

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers, acids and bases
Hazardous Decomposition Products:	CO, CO ₂ , NO _x
Hazardous Polymerization:	None

11. TOXICOLOGICAL INFORMATION

Inhalation:	Harmful if inhaled and may cause delayed lung injury. Can cause severe respiratory tract burns. Risk of serious damage to the lungs. May cause nose, throat and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Skin Contact:	Causes skin burns.
Eye Contact:	Causes eye burns. May cause blindness. Severe eye irritation.
Ingestion:	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Prolonged exposure	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat, Eye disease, Skin Disorders and Allergies.

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	Because of the n-octanol/water distribution coefficient (low Pow) accumulation in organisms is not to be expected.
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Toxicity to other organisms: No data available

13. DISPOSAL CONSIDERATIONS

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of a liquid to a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws have specific disposal requirements for non-hazardous industrial chemicals. Consult local municipal authorities, landfill personnel, disposal companies for details prior to any disposal activity. Always follow local, state and federal regulations.

14. TRANSPORT INFORMATION

CE440 Part A: Not hazardous for domestic ground shipment

CE440 Part A IMDG: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (epoxy resin) 9 III

CE440 Part B: UN 2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine) 8, III, ERG 154

CE440 Part B DOT: In quantities not to exceed 5kg/5L per single or inner packaging, not subject to regulation by ground.

CE440 Part B IMDG: UN 2735 Amines, liquid, corrosive, n.o.s. (Isophoronediamine) 8, III, ERG 154

MARINE POLLUTANT - No

Placards required over 1,000 lbs.

15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

Section 302 Extremely hazardous substance	No
Section 311 Extremely hazardous chemical	Yes

State Regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Rating Scale: 0-4

HMIS II ratings: Health = 2, Fire = 1, Reactivity = 0



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HMIS III ratings: Health = 2, Fire = 1, Physical Hazard = 0
NFPA ratings: Health = 2, Fire = 1, Reactivity = 1

The information and recommendation in this document are based on the best information available to us at the time of preparation. We make no other warranty, expressed or implied, as to its correctness or completeness, or as to the results or reliance of this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

User Responsibility: The information in this document cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions, in addition to those described herein, are required. Any health hazard and safety information herein should be distributed to customers or employees as applicable.

DISCLAIMER

The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of this SDS. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, as to its correctness or completeness, or as of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers or as to the results or reliance of this product. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.