

Section 1. Identification

Product Name: CIE 100 EPOXY 100 Part B

Effective Date: 15 March 2017

Replaces: New

Manufacturer Name: Silpro, LLC

Address: 2 New England Way

Ayer, MA 01432-1514

24/7 EMERGENCY PHONE: INFOTRAC 800-535-5053 Call collect internationally 352-323-3500

24/7 HEALTH EMERGENCIES: 800-222-1222 National Poison Control Center.

Section 2. Hazard(s) Identification

Emergency overview: Clear liquid with slight odour. CIE 100 EPOXY B™ may cause serious eye and skin irritation. Inhalation may cause respiratory irritation and ingestion may cause gastric distress.



GHS Pictograms:

GHS Signal Word: DANGER

POTENTIAL HEALTH EFFECTS:

CODE OF HAZARD STATEMENTS:

Physical hazards

None.

Health Hazards

H227, Combustible liquid.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H361, Suspected of damaging fertility or the unborn child.

Environmental hazards

H411, Toxic to aquatic life with long lasting effects.

CODE OF PRECAUTIONARY STATEMENTS:

General

P101, Keep out of reach of children.

P103, Read label before use.

Prevention

P234, Keep only in original container.

P262 Do not get in eyes, on skin or on clothing.

P264, Wash thoroughly after handling.

P270, Do not eat, drink or smoke when using this product.

P280, Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312, Call a POISON CENTER or doctor/physician if you feel unwell.

P331, DO NOT induce vomiting.

P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352, Wash with plenty of soap and water.

P362, Take off contaminated clothing and wash before reuse.

Storage

P402, Store in a dry place.

P403, Store in a well-ventilated area.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY: None.

Section 3. Composition/Information on Ingredients

Ingredients			
Component	CAS #	EINECS #	Percent
4-nonphenol branched	84852-15-3	284-325-5	15-35
Poly (propylene glycol) bis(2-aminopropyl ether	9046-10-0	618-561-0	15-35
Triethylenetetramine	112-24-3	203-950-6	15-35
2-piperazin-1-ylethylamine	140-31-8	203-808-3	15-35
2,4,6-tris (dimethylaminomehtyl)phenol	90-72-2	202-013-9	2-12

General Information: Immediately remove any clothing soiled by the product.

Eye Contact: Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse. If irritation persists, contact a physician.

Inhalation: Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

Ingestion: If swallowed, get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person, have person lean forward to reduce the risk of aspiration. Drink copious amounts of water and seek medical help.

Section 5. Fire Fighting Measures

Flash Point: 198°F (92°C).

Flammability Limits: LEL: 0.7% UEL: 10.5

Fire Fighting Media: Use dry powder and carbon dioxide.

Special Fire Fighting Procedures: First responders need to wear full-bunker gear with SCBA, never enter a confined space unless fully protected with proper personal protective equipment (PPE).

Section 6. Accidental Release Measures

Use personal protective equipment, see section 8.

Clean-up Procedures: Stop the source of the release if you are not put at risk. Use absorbent material (such as sand or kitty litter) to absorb the spill for disposal. Use neutralizing agent.

Spills and Leaks: Dispose in accordance to local, state or federal regulations.

Section 7. Handling and Storage

Handling: Use with adequate ventilation. Do not get into eyes, on skin and on clothing. Wash thoroughly after handling.

Storage: Store in original labeled container. Keep in cool and dry areas. Keep out of sunlight.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: Consider the potential hazards of this product outlined in section 2. Use process exposures such as local exhaust ventilation, to control over exposure to airborne levels above recommended exposure limits.

Exposure Limit: triethylenetetramine 6 mg/m³

Personal Protection:

Eyes: Wear safety goggles or safety glasses to prevent eye contact.

Body: Long sleeve shirts, long pants, socks, rubber boots and chemical-resistant gloves.

Hands: Neoprene chemical-resistant gloves.

Respiratory: Wear an approved respirator that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.

Other: None.

Section 9. Physical and Chemical Properties

Odour/Colour	Yellow to amber liquid with slight amine odour	Ignition temperature	>464°F (>240°C)
Solubility	Complete in water	Specific gravity (water=1)	0.95 @68°F (20°C)
Flash Point	198°F (92°C)	Boiling Point	428°F (220°C)

Section 10. Stability and Reactivity

Chemical Stability: Considered stable under normal ambient temperatures.

Hazardous Decomposition: If complete combustion, oxides of nitrogen and other organic substances.

Hazardous Polymerization: Will not occur

Incompatibility - Materials to Avoid: Avoid strong acids, bases and strong oxidizing agents.

Section 11. Toxicological Information

The product is toxic to fish.

Acute Eye Irritation: Strong irritant with the danger of severe eye injury.

Acute Skin Irritation: Strongly caustic effect on skin and mucous membranes. May cause allergic skin reaction.

Acute Dermal Toxicity: Irritant to skin and mucous membranes.

Carcinogenic Effects: None of the ingredients are listed.

Section 12. Ecological Information

Toxic to fish, plankton and aquatic organisms. Keep out of ground water or sewage systems.

Ecotoxicity: The toxicity of this product has not been determined.

Environmental Fate: This product's environmental fate has not been determined.

Section 13. Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations.

Container Handling and Disposal: All containers should be disposed per local, state and Federal regulations.

Section 14. Transport Information

Proper Shipping Description: Not regulated by US DOT

IATA: For cargo air craft only:

UN2922, Corrosive liquids, toxic, N.O.s., (4-nonphenol branched, Triethylenetetramine), 8, 6.1, II Marine Pollutant (2-piperazin-1-ylethyamine)

Use packing instruction 812. The net quantity per package is 7.93 gals (30L)

IMO: Not regulated.

UN2922, Corrosive liquids, toxic, N.O.s., (4-nonphenol branched, Triethylenetetramine), 8, 6.1, II Marine Pollutant (2-piperazin-1-ylethyamine)

Use packing instructions P001.

Section 15. Regulatory Information

EPCRA 311/312 Categories:

Immediate (Acute) Health Effects:	Yes
Delayed (Chronic) Health Effects:	Yes
Fire Hazard:	No
Sudden Release of Pressure	No
Reactivity:	No

Right to know classification: Ingredients are listed in MA, NY and PA.

TSCA: All of the ingredients are listed.

Section 313: Epoxy resins

Prop. 65 (CA): None.

Reportable Quantity (RQ): None.

Ingredients are listed in chemical inventories of ACIS, ECL, EEC, ENCS, EU, Israel, MAC, MAK, MITI, PICCS, SWISS, Taiwan, USA and UK.

Abbreviations:

CAS #	Chemical Abstract Service Number	EINECS	European Inventory of existing Commercial Chemical Sales
°C	Celsius temperature scale	°F	Fahrenheit temperature scale
Prop.	Proprietary	PE	Personal Protective Equipment
TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short-term Exposure Limit	PEL	Permissible Exposure Limit
OSHA	Occupational Safety & Health	NIOSH	National Institute of Safety & Health
NFPA	National Fire Protection Agency	WHMIS	Workplace Hazardous Materials Information System
NTP	National Toxicology Program	IARC	Int. Agency for Research on Cancer



Safety Data Sheet

CIE 100 EPOXY B™

RCRA	Resource Conservation Recovery Act	TSCA	Toxic Substance Control Act
EC ₅₀	Effective Dose	LC ₅₀	Lethal Inhalation Concentration
LD ₅₀	Lethal Dose	CAS	Chemical Abstract Service Number
LEL	Lower explosive limit	UEP	Upper explosive limit
NDA	No Data Available	ND	Not determined
NE	None established	NA	Not Applicable
≤	Less Than or Equal To	≥	Greater Than or Equal To
CNS	Central Nervous System	CI	China
DSL	Canada	ECL	Korean Existing Chemicals List
EEC	European Economic Commission	ENCS	Japanese Existing and New Chemical List
EU	European Union	MAC	Netherlands
MAK	Germany	MITI	Japan
PICCS	Philippines	SWISS	Giftlist 1
UK	United Kingdom	USA	United States
VOC	Volatile organic content		
ACGIH	American Conference of Government Industrial Hygienists		
SARA	Superfund Amendments and Reauthorization Act		
AICS	Australian Inventory of Chemical Substances		
IARC	International Agency for Research on Cancer		
Taiwan	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086		

Section 16. Other Information

Hazardous Material Information (HMIS)

National Fire Protection Association (NFPA)

Health	3	4	Health
Fire	2	2	Fire
Reactivity	0	0	Instability
Personal Protection	K		NA

Health 4 Deadly 3 Extreme Danger 2 Dangerous 1 Slight hazard 0 No hazard
 Fire 4 < 73 °C 3 < 100 °C 2 < 200 °C 1 >200 °C 0 Will not burn
 Reactivity/Instability 4 – May detonate 3 Explosive 2 Unstable 1 Normally stable 0 Stable

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Reviewed by: Regulatory department

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