

# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 100 PART A  
**MANUFACTURER:** LymTal International, Inc  
4150 S Lapeer Rd Orion, MI 48359  
[www.lymtal.com](http://www.lymtal.com)  
For Non-Emergency Questions,  
Hours 8AM to 4PM Eastern Standard Time  
(248) 373-8100

**EMERGENCY CONTACT:** 24-Hour Chemtrec (800)424-9300  
Chemtrec, D.C. Area (800)483-7616

## II. Hazards Identification

Classification of the Substance or Mixture:



Acute Aquatic Environmental Hazard, CAT 2



Resp Sensitizer, CAT 2; Carcinogenicity, CAT 2; STOT Repeated Exposure, CAT 2, CNS;  
Aspiration Hazard, CAT 2



Skin Corrosion/Irritation, CAT 1B

Signal Word: **DANGER**

### Hazard Statements:

H303	May Be Harmful If Swallowed	Acute Toxicity, Cat 5, Oral
H305	May Be Harmful If Swallowed And Enters The Airways	Aspiration Hazard, Cat2
H314	Causes Severe Skin Burns And Eye Damage	Skin Corrosion/Irritation Cat 1B
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H319	Causes Serious Eye Irritation	Eye Damage/Irritation, Cat 2A
H335	May Cause Respiratory Irritation	Stot Single Exposure, Cat 3, RTI
H336	May Cause Drowsiness Or Dizziness	Stot Single Exposure, Cat3, NE
H351	Suspected Of Causing Cancer	Carcinogenicity, Cat 2
H361	Suspected Of damaging Fertility Or The Unborn Baby	Reproductive Toxicity, Cat 2
H373	May Cause Damage To Organs Through Prolonged Or repeated Exposure	Stot Repeated Exposure, Cat 2, CNS
H411	Toxic To Aquatic Life With Long Lasting Effects	Long term Aquatic environmental Hazard, Cat 2

### Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P201	Obtain Special Instructions Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P260	Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P272	Contaminated Clothing Should Not Be Allowed Out Of the Workplace
P273	Avoid Release To The Environment
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P285	In Case Of Inadequate Ventilation Wear Respiratory Protection
P301+P330	If Swallowed: Rinse Mouth
P303+P353+P361	If On Skin (Or Hair): Remove/Take Off Immediately All Contaminated Clothing. Rinse Skin With Water/Shower
P304+P340	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing.
P305+P351+P338	If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing.
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P312	Call A Poison Center/Doctor If You Feel Unwell
P314	Get Medical Advice/Attention If You Feel Unwell
P331	Do Not Induce Vomiting
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P342+P311	If Experiencing Respiratory Symptoms: Call A Poison Center Or Doctor
P362+P364	Take Off Contaminated Clothing And Wash Before Reuse
P363	Wash Contaminated Clothing Before Reuse
P370+P378	In Case Of Fire: Use Carbon Dioxide, Foam, Dry Chemical, Water Fog To Extinguish
P391	Collect Spillage
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed.
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

### III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Bis A Epoxy Resin	25068-38-6	0-80%
Magnesium Silicate	14807-96-6	0-20%
Glycidyl Ether Diluent	2461-15-6	0-20%
Epichlorohydrin And Bis A Biproducts	025085-99-8	0-5%
Cresyl Glycidyl Ether	002210-79-9	0-2%
Iron Oxide	1309-37-1	0-10%
Titanium Dioxide	013463-67-7	0-10%
Carbon Black	001333-86-4	0-10%
Hydrotreated Heavy Naptha (Petroleum)	64742-48-9	0-4%

#### California Proposition 65 Ingredients

Phenyl Glycidyl Ether	122-60-1	
Cresyl Glycidyl Ether	002210-79-9	<2.0%

#### Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

Cresyl Glycidyl Ether	002210-79-9	<2.0
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### IV. First Aid Measures

<u>Inhalation</u>	Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance
<u>Eyes</u>	Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.
<u>Skin</u>	Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
<u>Ingestion</u>	Do not induce vomiting; get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person

### V. Fire Fighting Methods

HMIS Hazard Rating No. 1

Flash Point: > 93°C ( 200°F )

Method: Pensky Martin C.C.

General Hazard: None

Auto-Ignition Temp.: Not Available

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

For small fires, use water spray, foam, CO<sub>2</sub>, or dry chemical. For large fires, use water spray, fog, or alcohol foam.

Special Fire & Unusual Hazards

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved, pressure demand self-contained breathing apparatus and full protective gear.

## VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Avoid contact with skin or eyes. Ventilate area, then eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, clean up residue with absorbent material.

Waste Disposal Method: Handle disposal of waste material in a manner that complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

## VII. Handling And Storage

Store Dry At 50-95°F. Condition Material To 65-85°F Before Using  
Store away from oxidizing agents and high temperatures

## VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

## IX. Physical And Chemical Properties

Boiling Point (°C):	N/D	Water/Oil Distribution Coefficient:	N/A
<b>VOC, Content US EPA method 24</b>	<b>39 g/L Part A only (VOC) 98g /L Part A &amp; Part B</b>	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	Specific Gravity @20° C	<b>10.6 lbs. / gal</b>
Vapor Pressure @ 20° C	N/A	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>slight</b>
Appearance:	<b>Pigmented liquid-mostly gray</b>		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

## X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability

Stable

Incompatibility:

Strong acids, oxidizing agents, bases, amines and mercaptans.

Hazardous Decomposition Products

Oxides of Carbon; aldehydes and acids. Decomposition and combustion products may be toxic.

Conditions To Avoid

Strong acids in bulk.

## XI. Toxicity Information

HMIS Hazard Rating No. 2

PRIMARY ROUTE OF ENTRY: Inhalation, dermal, and eyes.

Effects Of Overexposure

<u>Inhalation:</u>	May cause irritation to the respiratory tract.
<u>Eyes:</u>	May be severely irritating to the eyes.
<u>Skin Contact:</u>	Irritating to the skin. In some individuals it may cause sensitization.
<u>Ingestion:</u>	May cause permanent damage to the mouth throat and stomach.
Chronic:	This product does not contain chemicals considered to be carcinogenic by NTP, IRAC, ACGIH, OSHA. However this product does contain (<5ppm) of epichlorohydrin (ECH) (cas no 106-89-8). It is unlikely that normal work practices with this product could result in measurable concentrations in the workplace. Please be aware that ECH has been reported to produce cancer in lab animals and top cause of mutagenic changes in bacteria and cultured human cells. It has been classified as a suspected human carcinogen by the NTP.

## XII. Ecological Information

Marine Pollutant: NL

(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

## XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations.

## XIV. Transport Information

DOT SHIPPING INFORMATION : **Not Regulated**

## XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)	Hazardous
CERCLA/ Super fund (40 CFR 117,302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355)	N/A
SARA Hazard Categories (40 CFR 370)	Health: Immediate Physical: Fire
SARA Toxic Chemicals (40 CFR 372)	None
Inventory Status	The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

## **XVI. Other Information**

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LYMTAL INTERNATIONAL, INC CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 11/06/2015

# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 100 PART B

**MANUFACTURER:** LymTal International, Inc  
4150 S Lapeer Rd Orion, MI 48359  
[www.lymtal.com](http://www.lymtal.com)  
For Non-Emergency Questions,  
Hours 8AM to 4PM Eastern Standard Time  
(248) 373-8100

**EMERGENCY CONTACT:** 24-Hour Chemtrec (800)424-9300  
Chemtrec, D.C. Area (800)483-7616

## II. Hazards Identification

Classification of the Substance or Mixture:



Reproduction Toxicity, CAT 2



Eye Damage/ Irritation, CAT 1; Skin Corrosion/Irritation, CAT 1A

Signal Word: **Danger**

Hazard Statements:

H303	May Be Harmful If Swallowed	Acute Toxicity, Cat 5, Oral
H313	May Be Harmful In Contact With Skin	Acute Toxicity, Cat5, Dermal
H314	Causes Severe Skin Burns and Eye Damage	Skin Corrosion/Irritation Cat 1A
H318	Causes Serious Eye Damage	Eye Damage/Irritation, Cat 1
H361	Suspected Of Damaging Fertility Or The Unborn Child	Reproduction Toxicity, CAT 2
H401	Toxic To Aquatic Life	Acute Aquatic Hazard, CAT 2

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P201	Obtain Special Instructions Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P261	Avoid Breathing Vapors
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P272	Contaminated Clothing Should Not Be Allowed Out Of the Workplace
P273	Avoid Release To The Environment

P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P301 +P330	If Swallowed: Rinse Mouth
P303+P353+P361	If On Skin (Or Hair): Remove/Take Off Immediately All Contaminated Clothing Rinse Skin With Water/Shower
P304+P340	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing
P305+P351+P338	If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing.
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P310	Immediately Call A Poison Center Or Doctor/Physician
P312	Call A Poison Center Or Doctor/Physician If You Well Unwell
P314	Get Medical Advice/Attention If You Fell Unwell
P331	Do Not Induce Vomiting
P342+P313	If Experiencing Respiratory Symptoms Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed .
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/ Regulations

### III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Poly(Oxypropylene)Diamine	9046-10-0	15 – 40%
4-Nonylphenol	84852-15-3	15 -- 40%
Benzyl Alcohol	100-51-6	15 – 40%
4-Tert-Butylphenol	98-54-4	0.5 – 1.5%
M-Xylenediamine	1477-55-0	0.1 – 1.0%

#### California Proposition 65 ingredients

None

#### Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

None

### IV. First Aid Measures

<u>Inhalation</u>	Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance
<u>Eyes</u>	Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.
<u>Skin</u>	Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
<u>Ingestion</u>	Do not induce vomiting, get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person



## V. Fire Fighting Methods

HMIS Hazard Rating No. 1

**Flash Point:** > 93 °C (200 °F)

**Method:** C.C.

**General Hazard:** Decomposition and combustion products may be toxic.

**Auto-Ignition Temp.:** Not Available

**Limits of Flammability**

LEL: Not Available

UEL: Not Available

**Extinguishing Media**

Use water fog, carbon dioxide, or dry chemical.

**Special Fire & Unusual Hazards**

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved, pressure demand self-contained breathing apparatus and full protective gear.

## VI. Accidental Release Measures

**Action To Take For Spills/ Leaks:** **DANGER CORROSIVE:** Avoid contact with skin or eyes. Ventilate the area, and eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, then clean up residue with absorbent material.

**Waste Disposal Method:** Handle disposal of waste material in a manner that complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

## VII. Handling And Storage

Store In A Cool, Dry Place At 50-95°F. Condition Material To 65-85°F Before Using

Keep away from open flames and high temperatures. When handling, do not eat drink or smoke. Use in a ventilated area, and avoid contact with skin or eyes and avoid breathing vapors.

## VIII. Exposure Controls / Personal Protection

**Ventilation:** Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

**Personal Protection Equipment:** Do NOT wear contact lenses when working with this material. **Use chemical goggles/safety glasses with side shields and impervious gloves.** Wear clothing with long sleeves and pants. **In operations where mists can be generated or the exposure limits will be exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.** Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

## IX. Physical And Chemical Properties

Boiling Point (°C):	N/A	Water/Oil Distribution Coefficient:	N/A
<b>VOC, Content EPA method 24</b>	<b>162 g/L part B only (VOC) 98 g/L A and B mixed</b>	Solubility in Water:	<1.0%
Freezing Point (°C):	N/A	<b>Specific Gravity @20° C</b>	<b>8.55 lbs / gal</b>
Vapor Pressure @ 20° C	N/A	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>Ammonia like</b>
Appearance:	Amber liquid		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

## X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability

Stable

Incompatibility:

**Avoid heat, flame, epoxies, Isocyanates, acids, & contact with strong oxidizing agents**

Hazardous Decomposition Products

Oxides of Carbon and nitrogen; Decomposition and Combustion products may be toxic. Unidentified compounds may be formed during combustion.

Conditions To Avoid

See incompatibility section

## XI. Toxicity Information

HMIS Hazard Rating No. 3

PRIMARY ROUTE OF ENTRY: Inhalation, dermal

Effects Of Overexposure

Benzyl alcohol, CAS-No.: 100-51-6

Acute oral toxicity (LD-50 oral)

1,580 mg/kg ( Mouse ) 1,940 mg/kg ( Rabbit ) 3,100 mg/kg ( Rat ) 1,230 - 3,100 mg/kg ( Rat )

Acute inhalation toxicity (LC-50)

200 - 300 mg/l for 8 h ( Rat ) 1,000 mg/l for 8 h ( Rat )

Inhalation:

Vapors may be corrosive to the upper respiratory tract.

Eyes:

Contact can cause severe burns including blindness.

Skin Contact:

Corrosive to the skin. In some individuals it may cause sensitization.

Ingestion:

May cause permanent damage to the mouth throat and stomach.

Chronic:

This product does not contain chemicals considered to be carcinogenic by NTP, IRAC, ACGIH, OSHA.

## XII. Ecological Information

Marine Pollutant: NL

(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

## XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations.

## XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name

Corrosive liquid N.O.S. ( Alkaline Amine )

DOT Hazard Class

8 (Corrosive Liquid) PG II

DOT I.D Number

UN 1760

Label(s)

8 (corrosive)

## XV. Regulatory Information

OSHA Hazard Communication Standard  
(29 CFR 1910.1200)  
CERCLA/ Super fund (40 CFR 117,302)  
SARA 311 / 312 HAZARDS  
SARA Extremely Hazardous Substances  
(40 CFR 355)  
SARA Hazard Categories (40 CFR 370)

SARA Toxic Chemicals (40 CFR 372)  
Inventory Status

**Hazardous, Irritant, Corrosive**

No reportable materials  
ACUTE HEALTH HAZARD  
N/A

Health: Immediate

Physical: Fire

See section 313 notification in section III

The chemicals in this product are listed on the US  
TSCA Chemical Substance Inventory and the  
Canadian Domestic Substances List.

**XVI. Other Information**

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

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