

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISO-FLEX EPOXY SF PRIMER PART A

MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
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 Toxicity, CAT 4, Oral; Acute Toxicity, CAT 4, Dermal; Skin Corrosion/Irritation, CAT 2; Eye Damage/Irritation, CAT 2A; Skin Sensitizer, CAT 1; STOT Single Exposure, CAT 3 RTI



Carcinogenicity, CAT 2; STOT Repeated Exposure, CAT 2



Acute Toxicity, CAT 3, Inhale

Signal Word:

DANGER

Hazard Statements:

H227	Combustible Liquid	Flammable Liquid, Cat 4
H302	Harmful If Swallowed	Acute Toxicity, Cat 4, Oral
H312	Harmful In Contact With Skin	Acute Toxicity, Cat 4, Dermal
H315	Causes Skin Irritation	Skin Corrosion/Irritation Cat 2
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H319	Causes Serious Eye Irritation	Eye Damage/Irritation, Cat 2A
H331	Toxic if Inhaled	Acute Toxicity, Cat 3, Inhale
H335	May Cause Respiratory Irritation	Stot Single Exposure, Cat 3, RTI
H351	Suspected Of Causing Cancer	Carcinogenicity, Cat 2
H373	May Cause Damage To Organs Through Prolonged Or repeated Exposure	Stot Repeated Exposure, Cat 2
H402	Harmful To Aquatic Life	Aquatic Environmental Hazard, Cat 3

H412 Harmful To Aquatic Life With Long Lasting Effects

Long term Aquatic Environmental Hazard, Cat 3

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
- P210 Keep Away From Heat, Hot Surfaces, Sparks, Open Flames And Other Ignition Sources
No Smoking
- P233 Keep Container Tightly Closed
- 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
- P301 +P312 If Swallowed: Call A Poison Center/Doctor If You Feel Unwell
- P302 +P352 If On Skin: Wash With Plenty Of Soap And Water
- 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
- P314 Get Medical Advice/Attention If You Feel Unwell
- P312 Call A Poison Center/Doctor If You Feel Unwell
- P330 Rinse Mouth
- P332+P313 If Skin Irritation Occurs, Get Medical Advice/Attention
- P342+P311 If Experiencing Respiratory Symptoms, Call A Poison Center Or Doctor
- P337+P313 If Eye Irritation Persists: Get Medical Advice/Attention
- P362 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+P235 Store In A Well Ventilated Place. Keep Cool.
- 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.

Ingredients:	CAS #:	CONTENT
Epoxy Resin	25068-38-6	>55%
Epoxy Resin	26142-30-3	<30%
Furfuryl Alcohol (FA)	98-00-0	13%

California Proposition 65 ingredients

Phenyl Glycidyl Ether 122-60-1

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: 65 °C (149 °F)

Method: Pensky Martin 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

Carbon Dioxide, foam, dry chemical, and water fog.

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, and eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, and clean up residue with absorbent material.

Waste Disposal Method: Handle disposal of waste material in 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. Store Away From Open Flames and High Temperatures.
Condition Material To 65-85°F Before Using

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):	170 (FA)	Water/Oil Distribution Coefficient:	N/A
Percent Volatile:	(< 100 g/l = A + B)	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	Specific Gravity @20° C	1.14
Vapor Pressure @ 20° C	0.4mmHg	pH:	N/A
Vapor Density	3.4 at air =1	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	pungent
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:

Strong acids, bases, amines and mercaptans.

Hazardous Decomposition Products

Oxides of Carbon; aldehydes; at elevated temperatures (>500 °F)
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

Effects Of Overexposure

Inhalation:

Vapors may be irritating to the upper respiratory tract.

Eyes:

Contact can cause severe irritation redness and blurred vision.

Skin Contact:

In some individuals it may cause sensitization and thermal burns

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 This product is Not Regulated by DOT in containers of 119 gallon capacity or less.

DOT Proper Shipping Name **NOT REGULATED**

DOT Hazard Class

DOT I.D Number

Label(s)

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: None
SARA Toxic Chemicals (40 CFR 372) Inventory Status	None 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 COMPLIED 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: 11/19/2015

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISO-FLEX EPOXY SF PRIMER PART B

MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
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:



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



Acute Toxicity, CAT 4, Inhale; Acute Toxicity, CAT 4, Oral; Skin Sensitizer, CAT 1



STOT Repeated Exposure, CAT 2, Liver, Kidney, Sore Throat; Germ Cell Mutagenicity, CAT 2

Signal Word:

DANGER

Hazard Statements:

H302	Harmful If Swallowed	Acute Toxicity, Cat 4, Oral
H314	Causes Severe Skin Burns and Eye Damage	Skin Corrosion/Irritation Cat1B
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H318	Causes Serious Eye Damage	Eye Damage/Irritation, Cat 1
H332	Harmful If Inhaled	Acute Toxicity, Cat 4, Inhale
H341	Suspected Of Causing Genetic Defects	Germ Cell Mutagenicity , Cat 2
H373	May Cause Damage To Organs Through Prolonged Or repeated Exposure	Stot Repeated Exposure, Cat 2, Liver, Kidney,Sore Throat

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
P262	Do Not Get In Dydes, On Skin Or On Clothing
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
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P281	Wear Personal Protective Equipment As Required
P301 +P330	If Swallowed: Rinse Mouth
P302+P352	If On Skin: Wash With Plenty Of Soap And Water
P303+P361+P353	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
P312	Call A Poison Center/Doctor If You Feel Unwell
P314	Get Medical Advice/Attention If You Feel Unwell
P331	Do Not Induce Vomiting
P333+P313	If Skin Irritation Or Rash Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P363	Wash Contaminated Clothing Before Reuse
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>
Phenol	108-95-2	<20%
Hexanediamine, 1,6-	124-09-4	<20%
Cyclohexanediamine, 1,2- 1,2 Chad and 1,6 Had	694-83-7	<20%
Reaction Product Derivative	68479-80-1	>40%

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)

Phenol	108-95-2	<20%
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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: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: Not Available

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

Ignition will give rise to a class B fire. In case of a large fire use water spray, alcohol foam. In case of a small fire use carbon dioxide, foam, dry chemical, dry sand or limestone.

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 area, 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 in a cool dry place. Keep away from acids and oxidizers. Do not store in reactive metal containers. When handling do not eat drink or smoke. Use in a well ventilated area, and avoid skin 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 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):	205.00	Water/Oil Distribution Coefficient:	N/A
Percent Volatile:	(< 100 g/l = A + B)	Solubility in Water:	<1.0%
Freezing Point (°C):	N/A	Specific Gravity @20° C	1.04
Vapor Pressure @ 20° C	10.34 mmHg	pH:	alkaline
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	Ammonical
Appearance:	red liquid		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability

Stable

Incompatibility:

Mineral acids (sulfuric, phosphoric) organic acids (acetic acid, citric acid) oxidizing agents (perchlorates, nitrates) reactive metals (sodium, calcium) sodium or calcium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials react with hydroxyl compounds. A reaction accompanied by a large heat release occurs when the product is mixed with acids, which may cause vigorous boiling which can result in splashing.

Hazardous Decomposition Products

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

Conditions To Avoid

See incompatibility section

XI. Toxicity Information

HMIS Hazard Rating No. 3

PRIMARY ROUTE OF ENTRY: Inhalation, dermal

Effects Of Overexposure

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 **AMINES, LIQUID, CORROSIVE, NOS (HEXANEDIAMINE, 1,6-, CYCLOHEXANEDIAMINE, 1,2-), 8, II**

DOT Hazard Class **8 (Corrosive material) PG II**
DOT I.D Number **UN 2735** Label(s) **8 (corrosive) Placard**

DOT Exception: Small Packages / Limited Quantity : **Inner packaging < 5.0 liters net (Gross weight of combination Package not to Exceed 66 lbs.).** Label(s) : **Limited Quantity Placard**

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) Inventory Status See section 313 notification in section II
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 COMPLIED 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: 11/20/2015