

# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 200, CLEAR, 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:



Skin Sensitizer, CAT 1; Acute Toxicity, CAT 4; Skin Corrosion/Irritation, CAT 2



Chronic Aquatic Environmental Hazard, CAT 2

Signal Word: **WARNING**

Hazard Statements:

H302	Harmful If Swallowed	Acute Toxicity, Cat 4
H315	Causes Skin Irritation	Skin Corrosion/Irritation, Cat2
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1B
H411	Toxic To Aquatic Life With Long Lasting Effects	Aquatic Environmental Hazard, Cat 1

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label 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
P262	Do Not Get In Eyes, 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 Work 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 +P315	If Swallowed: Get Immediate Medical Advice/Attention
P302 + P362+P353	If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower
P304+P340+P314	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing,

P305+P351+P315 Get Medical Advice/Attention If You Feel Unwell  
 If In Eyes: Rinse Cautiously With Water For Several Minutes, Get Immediate Medical Advice/Attention

P309+P311 If Exposed Or If You Feel Unwell: Call A Poison Center/Doctor

P330 Rinse Mouth

P332+P313 If Skin Irritation Occurs, Get Medical Advice/Attention

P337+P313 If Eye Irritation Persists: Get Medical Advice/Attention

P363 Wash Contaminated Clothing Before Reuse

P391 Collect Spillage

P405 Store Locked Up

P501 Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

### III. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Bis A Epoxy Resin	25068-38-6	0-80%
Glycidyl Diluent	2461-15-6	0-20%

#### 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: 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, CO2, 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, 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 manner which 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 Away From Oxidizing Agents And High Temperature At 50-95°F.

## 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>Percent Volatile:</b>	<b>( &lt; 5 g / L )</b>	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	<b>Specific Gravity @20° C</b>	<b>1.13</b>
Vapor Pressure @ 20° C	<10	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>Slight Epoxy</b>
<b>Appearance:</b>	<b>Amber liquid, &amp; pigmented</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 mutagenic changes in bacteria and cultured human cells. It has been classified as a suspected human carcinigen 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 INFORMATON

**Not Regulated**

## XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Bisphenol A Polyglycidyl Ether Resin 25068-38-6 Alphatic glycidyl ether 2461-15-6 All components are listed or exempt from the TSCA inventory.	Hazardous
CERCLA/ Super fund (40 CFR 117,302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355) SARA Hazard Categories (40 CFR 370)	N/A
SARA Toxic Chemicals (40 CFR 372) Inventory Status	Health : Immediate Physical: Fire 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 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: 6/05/2016

# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 200, CLEAR, 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 1A; Eye Damage/Irritation, CAT 1



Aquatic Environmental Hazard, CAT 1



Skin Sensitizer, CAT 1



Germ Cell Mutagenicity, CAT 1B; Carcinogenicity, CAT 1B; Reproduction Toxicity, CAT 2

Signal Word:

**DANGER**

### Hazard Statements:

H314	Causes Severe Skin Burns and Eye Damage	Skin Corrosion/Irritation Cat 1A
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H318	Causes Serious Eye Damage	Eye Damage/Irritation, Cat 1
H340	May Cause Genetic Defects	Germ Cell Mutagenicity, Cat 1B
H350	May Cause Cancer	Carcinogenicity, Cat 1B
H361	Suspected Of Damaging Fertility Or The Unborn Child	Reproduction Toxicity, Cat 2
H400	Very Toxic To Aquatic Life	Aquatic Environmental Hazard, Cat 1

ORAL-2.96% Unknown Acute Toxicity Oral

DERMAL -61.1% Unknown Acute Toxicity Dermal

INHALE VAPOR-100% Unknown Acute Toxicity Inhale Vapor

INHALE DUST/MIST-99.78% Unknown Acute Toxicity Inhale Dust/Mist

ACUTE AQUATIC HAZARD-42.45% Unknown Acute Aquatic Environmental Hazard

CHRONIC AQUATIC HAZARD-100% Unknown Chronic Aquatic Environmental Hazard

### 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
P262	Do Not Get In Eyes, 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
P273	Avoid Release To The Environment
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P301+P330+P331	If Swallowed: Rinse Mouth. Do Not Induce Vomiting
P302 + P362+P353	If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower
P304+P340+P314	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell.
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
P309+P311	If Exposed Or If You Feel Unwell: Call A Poison Center/Doctor
P310	Immediately Call A Poison Center Or Doctor
P312	Call A Poison Center/Doctor If You Feel Unwell
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P363	Wash Contaminated Clothing Before Reuse
P391	Collect Spillage
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>
4-Nonylphenol	84852-15-3	40-70%
Poly(Oxypropylene) Diamine	9046-10-0	10-13%
Diethylenetriamine	111-40-0	7-13%
Tris(Dimethylaminomethyl)Phenol	90-72-2	5-10%
Bisphenol A	80-05-7	3-7%
Tetraethylene Pentamine	112-57-2	0.5-1.5%
Phenol	108-95-2	0.1-1.0%
Stoddard Solvent	8052-41-3	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: 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, 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 manner which 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 open flames 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>Percent Volatile:</b> (less water, exempt solvent)	<b>( 47.4% ) by wt. Or 569 g / L</b>	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	<b>Specific Gravity @20° C</b>	<b>1.2</b>
Vapor Pressure @ 20° C	<10	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>Ammonical</b>
<b>Appearance:</b>	<b>Clear to yellow</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

Carbon dioxide and oxides of nitrogen. Decomposition and combustion products may be toxic.

Conditions To Avoid

Avoid heat, flame and contact with strong oxidizing agents.

## XI. Toxicity Information

HMIS Hazard Rating No. 3

Diethylenetriamine CAS # 111-40-0, Acute oral toxicity (LD-50 oral ), 1,080 mg/kg (rat), 2,330 mg/gl (rat).  
Bisphenol A, CAS # 80-05-7, Acute oral toxicity (LD-50 oral), 4,100 mg/kg (rat), 3,300 mg/gl (rat).

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

Effects Of Overexposure

<u>Inhalation:</u>	Vapors may be corrosive to the upper respiratory tract.
<u>Eyes:</u>	May cause severe damage including blindness.
<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.

## 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: **UN 1760, CORROSIVE LIQUID, N.O.S. (Aliphatic Amine), 8, PG III**

DOT Hazard Class : **8**

PACKING GROUP : **III**

DOT I.D. Number: **UN 1760**

DOT PLACARD: **CORROSIVE**

## XV. Regulatory Information

OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

Hazardous

**OSHA HAZARDOUS COMPONENTS :**  
**DIETHYLENETRIAMINE, CAS # 111- 40 - 0**  
**BISPHENOL A, CAS # 80- 05 - 7**  
CERCLA/ Super fund (40 CFR 117,302)

**Irritant ( Corrosive )**  
N/A

SARA Extremely Hazardous Substances  
(40 CFR 355)  
SARA Hazard Categories (40 CFR 370)

N/A

Health : Acute health hazard, Immediate  
Physical: Fire

**SARA 313 COMPONENTS :**  
**BISPHENOL A, CAS # 80 – 05 -7**

SARA Toxic Chemicals (40 CFR 372)  
Inventory Status

**BISPHENOL A, CAS # 80 – 05 -7**  
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: 8/24/2015

# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 200, PART A, PIGMENTED

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For Non-Emergency Questions,  
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(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 Sensitizer, CAT 1

Signal Word: **WARNING**

Hazard Statements:

H317 May Cause An Allergic Skin Reaction Skin Sensitizer, Cat 1  
H320 Causes Eye Irritation Eye Damage/Irritation, Cat 2B

Precautionary Statements:

P102 Keep Out Of Reach Of Children  
P260 Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray  
P262 Do Not Get In Eyes, One 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 Work 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 +P315 If Swallowed: Get Immediate Medical Advice/Attention  
P302 + P362+P353 If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower  
P304+P340+P314 If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing,  
Get Medical Advice/Attention If You Feel Unwell  
P305+P351+P338 If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present  
And Easy To Do.  
P308+P313 If Exposed Or Concerned: Get Medical Advice/Attention  
P332+P313 If Skin Irritation Occurs, Get Medical Advice/Attention  
P337+P313 If Eye Irritation Persists: Get Medical Advice/Attention  
P363 Wash Contaminated Clothing Before Reuse

P405 Store Locked Up  
P501 Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

### III. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Bis A Epoxy Resin	25068-38-6	60-100%

#### 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: 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, 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 which 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 Away From Oxidizing Agents And High Temperature At 50-95°F.

## 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>Percent Volatile:</b>	<b>( &lt; 5 g / L )</b>	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	<b>Specific Gravity @20° C</b>	<b>1.13</b>
Vapor Pressure @ 20° C	<10	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>Slight Epoxy</b>
<b>Appearance:</b>	<b>Amber liquid, &amp; pigmented</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.
<u>Chronic:</u>	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 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) Bisphenol A Polyglycidyl Ether Resin 25068-38-6 Aliphatic glycidyl ether 2461-15-6 All components are listed or exempt from the TSCA inventory.	Hazardous
CERCLA/ Super fund (40 CFR 117,302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355) SARA Hazard Categories (40 CFR 370)	N/A
SARA Toxic Chemicals (40 CFR 372) Inventory Status	Health : Immediate (Acute) Physical: Fire 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 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: 6/04/2016



# Safety Data Sheet

## I. Product and Company Identification

**PRODUCT:** ISO-FLEX EPOXY 200, PART B, PIGMENTED

**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 1A; Eye Damage/Irritation, CAT 1



Aquatic Environmental Hazard, CAT 1



Skin Sensitizer, CAT 1



Germ Cell Mutagenicity, CAT 1B; Reproduction Toxicity, CAT 2; Carcinogenicity, CAT 1B

Signal Word: **DANGER**

Hazard Statements:

H314	Causes Severe Skin Burns And Eye Damage	Skin Corrosion/Irritation, Cat 1A
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H318	Causes Serious Eye Damage	Eye Damage/Irritation, CAT 1
H340	May Cause Genetic Defects	Germ Cell Mutagenicity , Cat 1B
H350	May Cause Cancer	Carcinogenicity, Cat 1B
H361	Suspected Of Damaging Fertility Or The Unborn Child	Reproduction Toxicity, Cat 2
H400	Very Toxic To Aquatic Life	Aquatic Environmental Hazard, Cat 1

### 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
P262	Do Not Get In Eyes, 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 Work 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 +P315	If Swallowed: Get Immediate Medical Advice/Attention
P302 + P362+P353	If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower
P304+P340+P314	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell.
P305+P351+P315	If In Eyes: Rinse Cautiously With Water For Several Minutes, Get Immediate Medical Advice/Attention
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P312	Call A Poison Center/Doctor If You Feel Unwell
P330	Rinse Mouth
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P363	Wash Contaminated Clothing Before Reuse
P391	Collect Spillage
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

### **III. Composition/Information on Ingredients**

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
4-Nonylphenol	84852-15-3	40-70%
Trade Secret	X	>20%
Diethylenetriamine	111-40-0	7-13%
Poly(Oxypropylene) Diamine	9046-10-0	10-13%
Bisphenol A	80-05-7	3-7%
Tris(Dimethylaminomethyl) Phenol	90-72-2	3-7%
Stoddard Solvent	8052-41-3	0.1-1%

#### 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:** > 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, 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 manner which 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

## 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>Percent Volatile:</b>	<b>( 47.4% ) by wt.</b>	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	<b>Specific Gravity @20° C</b>	<b>0.998</b>
Vapor Pressure @ 20° C	<10	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	<b>Odor:</b>	<b>Ammonical</b>
<b>Appearance:</b>	<b>Clear to yellow</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

Carbon dioxide and oxides of nitrogen. Decomposition and combustion products may be toxic.

Conditions To Avoid

Avoid heat, flame and contact with strong oxidizing agents.

## XI. Toxicity Information

HMIS Hazard Rating No. 3

Diethylenetriamine CAS # 111-40-0, Acute oral toxicity (LD-50 oral ), 1,080 mg/kg (rat), 2,330 mg/gl (rat).  
Bisphenol A, CAS # 80-05-7, Acute oral toxicity (LD-50 oral ), 4,100 mg/kg (rat), 3,300 mg/gl (rat).

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

Effects Of Overexposure

Inhalation:

Vapors may be corrosive to the upper respiratory tract.

Eyes:

May cause severe damage including blindness.

Skin Contact:

Irritating 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: **DOT NOT REGULATED**

DOT Hazard Class :

DOT I.D. Number: N/A

DOT PLACARD: N/A

## XV. Regulatory Information

OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

Hazardous

**OSHA HAZARDOUS COMPONENTS :**  
**DIETHYLENETRIAMINE, CAS # 111- 40 - 0**  
**BISPHENOL A, CAS # 80- 05 - 7**  
CERCLA/ Super fund (40 CFR 117,302)

**Irritant ( Corrosive )**

N/A

SARA Extremely Hazardous Substances  
(40 CFR 355)  
SARA Hazard Categories (40 CFR 370)

N/A

Health : Acute health hazard, Immediate  
Physical: Fire

**SARA 313 COMPONENTS :**  
**BISPHENOL A, CAS # 80 – 05 -7**

SARA Toxic Chemicals (40 CFR 372)  
Inventory Status

**BISPHENOL A, CAS # 80 – 05 -7**

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

## **XVI. Other Information**

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Date of Preparation/ Last Revision: 5/02/2016