

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISO-FLEX PRIMER 10, 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:



Flammable Liquid, CAT 3



Resp Sensitizer, CAT 1; Carcinogenicity, CAT 2

Signal Word: **DANGER**

Hazard Statements:

H226	Flammable Liquid And Vapor	Flammable Liquid, Cat 3
H332	Harmful If Inhaled	Acute Toxicity, Cat 4, Inhale
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
H334	May Cause Allergy Or Asthma Symptoms Or Breathing Difficulties If Inhaled	Resp Sensitizer, Cat 1
H351	Suspected Of Causing Cancer	Carcinogenicity, Cat 2

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
P210	Keep Away From Heat, Hot Surfaces, Sparks, Open Flames And Other Ignition Sources No Smoking
P240	Ground/Bond Container And Receiving Equipment
P241	Use Explosion Proof Electrical/Ventilating/Lighting/Equipment
P242	Use Only Non Sparking Tools

P243	Take Precautionary Measures Against Static Discharge
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 Work Clothing Should Not Be Allowed Out Of The Workplace
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P284	Wear Respiratory Protection
P301 +P315	If Swallowed: Get Immediate Medical Advice/Attention
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P330	Rinse Mouth
P363	Wash Contaminated Clothing Before Reuse
P331	Do Not Induce Vomiting
P302 + P362+P353	If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower
P309+P311	If Exposed Or If You Feel Unwell: Call a Poison Center Or Doctor
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Attention
P370+P378	In Case Of Fire: Use Carbon Dioxide, Foam, Dry Chemical, Water Fog To Extinguish
P305+P351+P338	If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing.
P304+P340+P314	If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell.
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

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Propylene Glycol Monomethyl Ether Acetate	108-65-6	10-20%
Xylene	1330-20-7	10-20%
Ethyl Benzene	100-41-4	<=3.3%
Urethane Prepolymer	Proprietary	60-100%
2,4-Toluene Diisocyanate	584-84-9	<=0.4%
2,6-Toluene Diisocyanate	91-08-7	<=0.1%

California Proposition 65 Ingredients:

2,4-Toluene Diisocyanate	584-84-9	<=0.4%
2,6-Toluene Diisocyanate	91-08-7	<=0.1%
Ethyl Benzene	100-41-4	<=3.3%

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)

Ethyl Benzene	100-41-4	0.04%
Xylene	1330-20-7	0.24%
2,4-Toluene Diisocyanate	584-84-9	<=0.4%
2,6-Toluene Diisocyanate	91-08-7	<=0.1%

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. 2

Flash Point: 40 °C (104 °F)

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: Not Available

Limits of Flammability

LEL: 1.0% solvent

UEL: 13.10% solvent

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, clean up residue with absorbent material. Wash down area with dilute ammonium hydroxide or detergent solution, allow 30 minutes to react. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways.

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

Keep containers closed and stored in a well ventilated area at 60 --80 deg F. Outage of container should be filled with nitrogen. Contamination by moisture or basic compounds can cause dangerous pressure build up in closed containers.

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 may 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):	145	Water/Oil Distribution Coefficient:	N/A
VOC Content g/l:	441 g/L (A + B = 356 g/L)	Solubility in Water:	Reacts with
Freezing Point (°C):	-14	Specific Gravity @20° C	1.15
Vapor Pressure @ 20° C	11mbar	pH:	N/A
Vapor Density	> air	Evaporation Rate:	N/a
Odor Threshold:	N/A	Odor:	Aromatic
Appearance:	Amber liquid		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 1

Stability

Stable

Incompatibility:

Strong acids, oxidizing agents reducing agents bases water peroxides and amines.

Hazardous Decomposition Products

At elevated temperatures, isocyanate vapors may be formed. Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed as well as hydrogen cyanide and Isocyanic Acid.

Conditions To Avoid

See incompatibility.

XI. Toxicity Information

HMIS Hazard Rating No. 2

PRIMARY ROUTE OF ENTRY: Inhalation, dermal

Effects Of Overexposure

Inhalation: Vapors can be irritating to nose and mucous membranes. High exposures may result in narcotic effect, headaches, tightness or burning in chest and coughing. Respiratory sensitivity may result in asthma-like symptoms and on subsequent exposure even below the TLV.

Eyes: Contact can cause burning and tearing.

Skin Contact: Contact may cause moderate skin irritation. In some individuals exposure may result in allergic type symptoms causing rash, itching, and hives.

Ingestion: Not expected to be a relevant route of exposure although it may cause gastrointestinal irritation, nausea, vomiting and abdominal pain.

Chronic: TDI was listed as a potential animal carcinogenic by NTP and IARC. National Toxicology Program study reported increased tumors in rats and mice via TDI exposure through a tube in the stomach (oral gavage technique); lifetime inhalation studies on animals were negative regarding carcinogenicity.
Materials are not known mutagenic, teratogenic, or reproductive health hazards.

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 Resin solution (contains Xylene, 2,4-TDI, 2-Methylethyl Acetate)
DOT Hazard Class 3 PG III
DOT I.D Number UN 1866 Label(s) Flammable

XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)	Hazardous	RQ: 100lbs
CERCLA/ Super fund (40 CFR 117,302)	Xylene	RQ: 1000lbs
	Ethyl Benzene	RQ: 100lbs
	2,4-toluene diisocyanate	RQ: 100lbs
	2,6-toluene diisocyanate	
SARA Extremely Hazardous Substances (40 CFR 355)	2,4 Toluene diisocyanate	
SARA Hazard Categories (40 CFR 370)	2,6 Toluene diisocyanate	
SARA Toxic Chemicals (40 CFR 372)	Acute health hazard, Chronic Health hazard, Fire Hazard.	
Inventory Status	See section III supplier notification	
	The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.	

California Proposition 65:

See section III for list of chemicals

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: 12/6/2018

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISO-FLEX PRIMER 10, 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:



Flammable Liquid, CAT 3



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



STOT Single Exposure, CAT 3A, Respiratory; STOT Single Exposure, CAT 3B, Narcotic Effect/CNS; Skin Corrosion/Irritation, CAT2; Skin Sensitizer, CAT 1B; Eye Damage Irritation, CAT 2A

Signal Word:

DANGER

Hazard Statements:

H226	Flammable Liquid and Vapor	Flammable Liquid, Cat 3
H315	Causes Skin Irritation	Skin Corrosion/Irritation Cat 2
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1B
H319	Causes Serious Eye Irritation	Eye Damage/Irritation, Cat 2A
H335	May Cause Respiratory Irritation	Stot Single Exposure, Cat 3A, Respiratory
H336	May Cause Drowsiness or Dizziness	Stot Single Exposure, Cat 3B, Narcotic Effect/CNS
H340	May Cause Genetic Defects	Germ Cell Mutagenicity, Cat 1B
H350	May Cause Cancer	Carcinogenicity, Cat 1B
H360	May Damage Fertility Or The Unborn Child	Reproduction Toxicity, Cat 1B

Precautionary Statements:

P101	If Medical Advice Is Needed, Have Product Container Or Label At Hand
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
P240	Ground/Bond Container And Receiving Equipment
P241	Use Explosion Proof Electrical/Ventilating/Lighting/Equipment
P242	Use Only Non Sparking Tools
P243	Take Precautionary Measures Against Static Discharge
P260	Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray
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
P285	In Case Of Inadequate Ventilation Wear Respiratory Protection
P301 +P312	If Swallowed: Call A Poison Center Or Doctor/Physician If You Feel Unwell
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
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
P362	Take Off Contaminated Clothing And Wash Before Reuse
P370+P378	In Case Of Fire: Use Foam, Carbon Dioxide, Dry Chemical, Water Spray Or Fog
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

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Petroleum Hydrocarbons	64742-95-6	25.2%
Nonhazardous Ingredients		Balance

California Proposition 65 ingredients

Ethyl Benzene	100-41-4	0.2%
Cumene	98-82-8	0.6%
Benzene	123-91-1	

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)

1,2,4-trimethylbenzene	95-63-6	12.8%
Xylene	1330-20-7	1.2%
Cumene	98-82-8	0.6%
Ethyl Benzene	100-41-4	0.2%
Benzene	123-91-1	

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. 2

Flash Point: 43 °C (110 °F)

Method: Tag C.C.

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: 471 °C (AH)

Limits of Flammability

LEL: 1.9% (AH)

UEL: 12.6% (AH)

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, 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 in a cool dry place. Keep away from heat, open flames or sources of sparks. Keep container closed at all times when not in use.

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 may 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/D	Water/Oil Distribution	N/A
VOC Content	325 g/L (A + B = 356 g/L)	Coefficient:	
Percent Volatile:	Ca ~ 40%	Solubility in Water:	Negligible
Freezing Point (°C):	N/A	Specific Gravity @20° C	0.92
Vapor Pressure @ 20° C	9.5	pH:	N/A
Vapor Density	>air	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	Aromatic
Appearance:	Amber liquid		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 1

Stability

Stable, avoid contact with moisture.

Incompatibility:

Strong oxidizing agents and reducing agents, strong acids, bases, amines and peroxides..

Hazardous Decomposition Products

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

Conditions To Avoid

Strong acids, bases, amines and peroxides in bulk.

XI. Toxicity Information

HMIS Hazard Rating No. 1

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

Effects Of Overexposure

Inhalation:

Vapors can be irritating to nose and mucous membranes.

Eyes:

Contact can cause severe irritation.

Skin Contact:

In some individuals it may cause sensitization.

Ingestion:

Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly leading to death.

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 This product is not regulated by DOT in containers of 119 gallon capacity or less.*

INTERNATIONAL

Proper Shipping Name	Flammable liquid, N.O.S (petroleum distillate)		
Hazard Class	3 PG III		
I.D. Number	UN 1993	Label(s)	Flammable

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: Delayed
SARA Toxic Chemicals (40 CFR 372) Inventory Status	See section 313 advisory in section III The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.
California Proposition 65:	See section III for list of chemicals

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: 12/03/2018

*** DOT Foot note : The flash Point of this material is greater than 100 °F. Regulatory classification of this material varies. DOT: Flammable liquid or combustible liquid. OSHA: Combustible liquid. IATA / IMO: Flammable liquid. This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as hazardous substance**