

Material Safety Data Sheet

Emergency Phone: (248)-373-8100 24-Hour CHEMTREC (800)-424-9300 CHEMTREC, D.C. Area 800-483-7616

I. Chemical Product And Company Data

PRODUCT: C-S12M174000 PRIMER PART A
CHEMICALFAMILY: Isocyanate Prepolymer
REVISION DATE: NOV 2005
MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359

Health	2
Flammability	2
Reactivity	1
Personal Protection	H

II. 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.

HAZARDOUS INGREDIENTS	CAS NO	EXPOSURE LIMITS			CONTENT
		TLV	STEL	PEL	
Propylene Glycol Monomethyl Ether Acetate	108-65-6	N/A	150ppm	N/A	10 – 20%
Xylene	1330-20-7	100ppm	150ppm	100ppm	10 – 20%
Ethyl Benzene	100-41-4	100ppm	125ppm	100ppm	<=3.3%
Urethane Prepolymer	Proprietary	N/A	N/A	N/A	60 - 100%
2,4-Toluene Diisocyanate	584-84-9	0.005 ppm	0.02 ppm	0.005 ppm	<=0.4%
2,6-Toluene Diisocyanate	91-08-7	0.005 ppm	0.02 ppm	0.005 ppm	<=0.1%

California Proposition 65 ingredients

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

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)

Xylene	1330-20-7	10 – 20%
Ethyl Benzene	100-41-4	<=3.3%
2,4-Toluene Diisocyanate	584-84-9	<=0.4%
2,6-Toluene Diisocyanate	91-08-7	<=0.1%

III. Hazards Identification

HMIS Hazard Rating No. 2

PRIMARY ROUTE OF ENTRY: Eye and skin contact, breathing and ingestion.

Symptoms of Exposure

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

Eyes: Contact can cause burning and tearing.

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.

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.

IV. First Aid Measures

Inhalation Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance

Eyes Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.

Skin Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion 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, 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 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

Average Shelf Life:

Refer to Product Data Sheet

Special Instructions

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	Solubility in Water:	Reacts with water
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.

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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 manner which 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-Toluene Diisocyanate)		
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	
CERCLA/ Super fund (40 CFR 117,302)	Xylene	RQ: 100lbs
	Ethyl Benzene	RQ: 1000lbs
	2,4-toluene diisocyanate	RQ: 100lbs
	2,6-toluene diisocyanate	RQ: 100lbs
SARA Extremely Hazardous Substances (40 CFR 355)	2,4 Toluene diisocyanate	
	2,6 Toluene diisocyanate	
SARA Hazard Categories (40 CFR 370)	Acute health hazard, Chronic Health hazard, Fire Hazard.	
SARA Toxic Chemicals (40 CFR 372)	See section II supplier notification	
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. CAN NOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.