

EMERGENCY CONTACTS

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Section 1. Product and Company Information

Product Name	TPO Primer	CHEM LINK INC 353 E. Lyons Street Schoolcraft MI 49087 U.S.A. Tel: 269-679-4440 Fax: 269-679-4448
Chemical Family	Synthetic Rubber/Resin Solution	
Product Use	Primer for Thermoplastic Olefin (TPO)	
MSDS Prepared	10/20/05	
MSDS Prepared by	Ed Zimmerman	

Section 2. Composition / Information on Ingredients**HAZARDOUS INGREDIENTS**

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Toluene	108-88-3	75-85%
Heptane	142-82-5	4-5%

Section 3. Hazards Identification**EMERGENCY OVERVIEW**Human Effects and Symptoms of Exposure

Routes of Entry – Skin contact, Skin absorption, Eye contact, Inhalation and Ingestion

Acute Eye Contact – Direct contact can cause severe irritation.

Acute Skin Contact – Direct contact may cause irritation.

Skin Absorption – Solvents may be absorbed through the skin in toxic amounts

Acute Inhalation – Can cause irritation. Respiratory symptoms associated with pre-existing lung disorders and pre-existing heart disorders may be aggravated by exposure to this product

Acute Ingestion – May be harmful if ingested, not a likely route of entry.

Chronic Effects of exposure – May cause reversible kidney and liver injury. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Repeated exposure to Toluene has been associated with high frequency hearing loss based on animal tests.

Medical Conditions Aggravated by exposure – May cause skin sensitization in some people.

Carcinogenicity – There are no components in this product that are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.

Section 4. First Aid Measures

First Aid For Eyes – Flush with large amounts of water for at least 15 minutes. Consult a Physician if ill effects or irritation occurs.

First Aid For Skin – Flush skin with running water and remove contaminated clothing then wash with soap and water. Consult a Physician if ill effects or irritation occurs.

First Aid for Inhalation – Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

First Aid For Ingestion – Do not induce vomiting. Consult a physician.

Section 5. Fire Fighting Measures

Special Fire Fighting Instructions – This product contains solvents that are dangerous fire and explosion hazards when exposed to heat or flame. Full emergency equipment with self – contained breathing apparatus and full protective clothing should be worn by firefighters.

Extinguishing Media – CO₂, Dry Chemical, Foam. Water may not be effective as an extinguishing Agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed containers and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

Unusual Fire and Explosion Hazards – Extremely flammable. Store and use away from all sources of heat, flame or sparks. Do not smoke while applying. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, open flames, sparks, heaters, smoking, electrical motors, static discharge or other ignition sources at location distant from material handling point and flash back. All containers should be grounded when material is transferred.

Flashpoint – 4.40°C (40°F)

Upper Flammable Limit – 7.0 % by Vol.

Lower Flammable Limit – 1.3 % by Vol.

Autoignition temperature – 536°C (997°F)

Sensitivity to Impact – Not applicable.

Sensitivity to Static Discharge – Vapors may ignite when exposed to static discharge.

Hazardous Combustion Products – Thermal decomposition may produce toxic fumes of Carbon Monoxide and/or Carbon dioxide.

Section 6. Accidental release measures

Personal Precautions – Use personal protection recommended in section 8.

Methods For Cleaning Up – Remove all sources of ignition. Avoid breathing vapors. Use self Contained breathing apparatus in enclosed area. Ventilate area. Contain and remove With inert absorbent materials and non-sparking tools.

Section 7. Handling and Storage

Handling – Use away from all sources of heat, flame or sparks. Do not smoke while using. Handling equipment must be grounded to prevent sparking. Handle with non-sparking Tools. Wash with soap and water before eating or drinking. Launder contaminated Clothing. KEEP OUT OF REACH OF CHILDREN.

Storage – Keep containers cool, dry and store away from all sources of heat, flame and sparks. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut, weld or grind the containers, or empty containers which may contain residual product and solvent vapors that may ignite explosively.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines – OSHA PEL-TWA for Toluene = 100 ppm

Engineering controls – Do not use in enclosed areas without proper explosion-proof ventilation.

General and local exhaust ventilation must be sufficient to control vapor concentrations and keep the vapor concentration below 100 ppm

.Personal Protective Equipment:

Eye Protection – Wear safety glasses or goggles to avoid eye contact.

Skin Protection – Hycron, Neoprene, Nitrile or equivalent solvent permeation resistant-

Section 8. Exposure Controls / Personal Protection (continued)

gloves required. Impervious clothing and footwear is recommended to protect skin from contact

Respiratory Protection – A NIOSH approved respirator must be used if vapor concentration is above 100 ppm.

Work/Hygienic Practices – Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

Section 9. Physical and Chemical Properties

Physical State.....Liquid

Odor and appearanceHydrocarbon odor, green colored liquid.

pH.....Not established.

Specific Gravity.....0.89

Vapor Density (air = 1)..... 3.14

Vapor Pressure (mmHg)..... 36.7 @ 30°C

Evaporation Rate (nBuAc=1)..... 2.1

Boiling Point..... 110° C

Freezing Point..... - 95.0° C

Coefficient of Water/Oil Distribution...Not established

Solubility in water..... Negligible

Section 10. Stability and Reactivity

Stability – Considered Stable.

Conditions to Avoid – Heat, sparks and flames; ignition sources.

Incompatible Materials – Strong oxidizing agents, acids, bases, amines.

Hazardous Decomposition Products – None known.

Hazardous polymerization – Will not occur.

Reactivity – Hazardous reaction will not occur.

Section 11. Toxicological Information

Oral –Ingestion causes irritation of the gastrointestinal tract.

Skin Absorption – Solvents may be absorbed through the skin in toxic amounts.

Skin Direct contact – Can cause irritation

Inhalation – Overexposure may result in headache, dizziness, fatigue, nausea and loss of consciousness.

Exposure Limits – 100 ppm for Toluene OSHA PEL -TWA

Sensitization – May cause skin sensitization in some people

Reproductive Toxicity – Some evidence in animal exposure to Toluene

Mutagenicity – Some evidence in animal exposure to Toluene

Teratogenicity – Some evidence in animal exposure to Toluene

Synergistic Products – No

LD₅₀ (mg/kg) – orl –rat: 5,000 ivn-mus: 222

LC₅₀ (ppm/4H) – mus: 7,528 hmn:TCLo: 10006M

Section 12. Ecological Information No known applicable information.

Section 13. Disposal Considerations

Dispose of in accordance with local, provincial(state), and federal regulations

Section 14. Transport Information

Special Shipping Information – A red caution label is required

DOT – Proper shipping name: Adhesives containing a flammable liquid, Hazard class: 3,

Packaging group: II, Label code: 3

TDG – Not available.

PIN – UN1133

Section 15. Regulatory Information

OSHA 29 CFR 1910-1200 – Flammable, Irritant.

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – 1000 pounds

SARA Title III:

Section 302 Extremely Hazardous Substances – None.

Section 304 – Not applicable.

Section 311/312 – Fire hazard, Immediate (acute) health hazard. Delayed (chronic) health hazard.

Section 313 – Toluene, 1.0%, standard

RCRA – Refer to section 13.

California Proposition 65 – This product contains a substance which the state of

California has found to cause cancer, birth defects or other reproductive harm: Toluene.

WHIMS Classification – B2

Section 16. Other Information

Prepared in accordance with 29 CFR 1910.1200

This Product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

.To the best of our knowledge, the information contained herein is accurate. However Chem Link Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist.