ANSI 2400.1 Format

### Section 1. Product and Company Information

Product Name **TPO Primer** CHEM LINK INC. 353 E. Lyons Street Schoolcraft, MI 49087, USA Tel: 269-679-4440 Fax: 269-679-4448

# **EMERGENCY CONTACTS**

Call Chemtrec:	U
International:	(7
Product Use:	P
Chemical Family:	М
SDS Prepared:	29
SDS Prepared by:	С
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USA: 1-800-424-9300 (703) 527-3887 Primer, mixture Mixture 29-May-15 CHEM LINK Product Safety Group

# Section 2. Hazards Identification

Hazardous classification:
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1A
Carcinogenicity - Category 2
Specific Target Organ Toxicity - Single Exposure - Category 3
Signal Word: Danger
Hazard Statements:
Highly flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
May cause allergic skin reaction
Suspected of causing cancer
May cause drowsiness or dizziness
Precautionary Statements:
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Response In case of fire: Use appropriate media to extinguish
IF exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable
Call a POISON CENTER if you feel unwell

# Label: Pictogram



for breathing

# CHEM LINK INC.

### Response (continued)

**TPO Primer** 

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Specific treatment (see label) **Storage** Store in a well-ventilated place. Keep container tightly closed Keep cool Store locked up

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations Carcinogenicity: This product contains a component known in the state of California to cause Cancer. Toluene

# Section 3. Composition / Information on Ingredients HAZARDOUS INGREDIENTS

Ingredient Name	CAS Number	Concentration_
Solvent naphtha, petroleum, light aliphatic	64742-89-8	10-30%
Isophorone Diisocyanate	Trade Secret	0.1-1%
Toluene	108-88-3	40-70%
Chlorinated polypropylene	Trade Secret	0.5-1.5%
Heat reactive phenolic resin	Trade Secret	0.1-1%
Isophorondiamine-isobutyraldimine	Trade Secret	0.1-1%

# Section 4. First Aid Measures

# **Description of Necessary Measures**

IF exposed or concerned: Get medical advice/attention.

# Inhalation

Remove person to fresh air and keep comfortable for breathing. Call aPOISON CENTER or doctor if you feel unwell.

# Skin

Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

# Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

# Ingestion

If swallowed, get medical attention.

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

# Most Important Symptoms/Effects

# Acute

Causes skin irritation. Causes serious eye irritation. May cause allergic skin reaction. May cause drowsiness or dizziness.

Delayed: May cause allergic skin reaction. Suspected of causing cancer.

### Section 5. Fire Fighting Measures

Extinguishing Media Suitable Extinguishing Media Dry chemical, foam or carbon dioxide. Water may be ineffective. Unsuitable Extinguishing Media Do not use high-pressure water streams. Special Hazards Arising from the Chemical Highly flammable liquid and vapor. Hazardous Combustion Products Carbon monoxide, carbon dioxide, oxides of nitrogen, aldehydes Fire Fighting Measures Move container from fire area if it can be done without risk.

### Section 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

#### Methods and Materials for Containment and Cleaning Up

Remove all sources of ignition. Avoid breathing vapors. Wear self-contained breathing apparatus and protective clothing. Ventilate the area. Use non-sparking tools. Large spills: Dike for later disposal. Cleanup Methods: Absorb with sand or other non-combustible material. Use clean non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal. Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

#### **Environmental Precautions**

Avoid release to the environment. Collect spillage.

#### Section 7. Handling and Storage

Handling Precautions: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosionproof

electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed Keep cool Store locked up Keep dry. Keep away from hea empty. Empty containers may contain product residue. Incompatible Materials Strong oxidizing agents, acids, bases

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# Section 8. Exposure Controls / Personal Protection

Component Expos	sure Limits					
Toluene	108-88-3					
ACGIH:	20 ppm TWA					
NIOSH:	100 ppm TWA; 375 mg/m3 TWA	150 ppm STEL; 560 mg/m3 STEI				
	500 ppm IDLH					
Europe:	50 ppm TWA; 192 mg/m3 TWA	100 ppm STEL; 384 mg/m3 STEI				
	Possibility of significant uptake three	Possibility of significant uptake through the skin				
OSHA (US):	200 ppm TWA	300 ppm Ceiling				
Mexico:	50 ppm TWA LMPE-PPT; 188 mg	50 ppm TWA LMPE-PPT; 188 mg/m3 TWA LMPE-PPT				
	Skin - potential for cutaneous abso	Skin - potential for cutaneous absorption				

### **Biological limit value**

There are no biological limit values for any of this product's components.

### **Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

#### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Skin Protection**

Wear appropriate chemical resistant clothing. Wear protective shoes.

#### **Respiratory Protection**

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

#### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

### Section 9. Physical and Chemical Properties

Appearance	orange to red liquid	Physical State	liquid
Odor	characteristic	Color	orange to red liquid
Odor Threshold	Not available	рН	Not available
Melting Point	-95 °C(-139° F)	Boiling Point	111 - 141 °C(232-259°F)
Freezing point	Not available	Evaporation Rate 2.7	
Boiling Point Range	Not available	Flammability (solid, ga	<b>s)</b> Not available
Autoignition	500 °C(932°F)	Flash Point	4 °C(40°F)
Lower Explosive Limit	0.9	Decomposition	Not available
Upper Explosive Limit	6.7	Vapor Pressure	19.3 mmHg
Vapor Density (air=1)	3.4	Specific Gravity (water	<ol> <li>Not available</li> </ol>
Water Solubility	Insoluble	Partition coefficient: no	octanol/water Not available
Viscosity	<200 cps	Solubility (Other)	Not available
Density	0.75 - 0.81	VOC	645 g/L

### Section 10. Stability and Reactivity

**TPO Primer** 

Section 10. Stability and Reactivity
Reactivity
No reactivity hazard is expected.
Chemical Stability
Stable under normal conditions of use.
Possibility of Hazardous Reactions
Will not polymerize.
Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials
Strong oxidizing agents, acids, bases
Hazardous decomposition products
Carbon monoxide, carbon dioxide, aldehydes
Section 11. Toxicological Information
Information on Likely Routes of Exposure
Inhalation
May cause drowsiness or dizziness.
Skin Contact
May cause allergic skin reaction. Causes skin irritation.
Eye Contact
Causes serious eye irritation.
•
Ingestion
No information on significant adverse effects. Acute and Chronic Toxicity
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Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Solvent naphtha, petroleum, light aliphatic (64742-89-8)
Oral LD50 Rat >2000 mg/kg
Dermal LD50 Rat >2000 mg/kg
Inhalation Rat >5000 ppm 1 hour
Isophorone Diisocyanate (Trade Secret)
Oral LD50 Rat >20000 mg/kg
Dermal Rat >5000 mg/kg [OECD Test Guideline 402]
Immediate Effects
Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
May cause allergic skin reaction.
Delayed Effects
May cause allergic skin reaction. Suspected of causing cancer.
Irritation/Corrosivity Data Causes skin irritation. Causes serious eye irritation.
Respiratory Sensitization No information available for the product.
Dermal Sensitization
May cause allergic skin reaction.
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### **Comonent Carcinogenicity**

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<b>foluene</b> 108-88-3				
ACGIH:	A4 - Not Classifiable as a Human Carcinogen			
	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not			
IARC:	classifiable))			
Germ Cell Mutagenicity				
No information available for the product.				
Tumorigenic Data				
No data available				
Reproductive Toxicity				
No information available for the product.				
Specific Target Organ Toxicity - Single E	xposure			
central nervous system				
Specific Target Organ Toxicity - Repeate	d Exposure			
No target organs identified.				
Aspiration hazard				
No information available for the product.				
Medical Conditions Aggravated by Expos	sure			

No data available.

# **Section 12. Ecological Information**

No known applicable information.

Solvent naphtha, petroleum, light aliphatic	64742-89-8			
Algae	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID			
Isophorone Diisocyanate	Trade Secret			
Fish	LC50 96 h Oncorhynchus mykiss 9.22 mg/L			
Invertebrate EC50 48 h Daphnia magna 6.14 mg/L IUCLID				
Toluene	108-88-3			
Fish	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Dncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]			
Algae	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA			
Invertebrate	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID			
Heat reactive phenolic resin	Trade Secret			
Fish	LC50 96 h Pimephales promelas 0.25 mg/L [flow-through]			
Algae	EC50 72 h Desmodesmus subspicatus 1.1 mg/L IUCLID EC50 96 h Pseudokirchneriella subcapitata 1.9 mg/L IUCLID			
Invertebrate	EC50 48 h Daphnia magna 0.07 - 0.12 mg/L [static] EPA			

# CHEM LINK INC.

### Section 13. Disposal Considerations

### **TPO Primer**

Dispose of contents/container in accordance with local/regional/national/international regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

### Section 14. Transport Information

US DOT Information: Shipping Name:ADHESIVES Hazard Class: 3 UN/NA #: UN1133 Packing Group: II Required Label(s): 3

IATA Information: Shipping Name:ADHESIVES Hazard Class: 3 UN#: UN1133 Packing Group: II Required Label(s): 3

TDG Information: Shipping Name:ADHESIVES Hazard Class: 3 UN#: UN1133 Packing Group: II

Section 15. Regulatory Information U.S. Federal Regulations

#### This material contains one or more of the following chemicals required to be identified under SARA

Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Toluene	108-88-3
SARA 313	1 % de minimis concentration
CERLA	1000 lb final RQ; 454 kg final RQ
TSCA 12 b	Section 4,1 % de minimus concentration (related to Hydrocarbons, C>4)

SARA Section 311/312 (40 CFR 370 Subparts B and C)

#### Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

#### **U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

# WARNING! This product contains a chemical known to the state of California to cause

reproductive/developmental effects

Toluene 108-88-3

Repro/Dev. Tox developmental toxicity , 1/1/1991

### Section 15. Regulatory Information (continued)

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Toluene	108-88-3
	1%

### **Component Analysis - Inventory**

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

110		FU   AU   PH	JP-	JP-	KR-	KR-			
US	CA	EU   AU   PH	ENCS	ISHL	KECI/KECL	TCCA	CN	NZ	MX
Yes	DSL	EIN   Yes   Yes	No	No	Yes	No	Yes	Yes	Yes

#### Isophorone Diisocyanate (Trade Secret)

US			JP-	JP-	KR-	KR-			
	CA	EU   AU	ENCS	ISHL	KECI/KECL	TCCA	CN	CN   NZ MX	MX
Yes	DSL	EIN Yes	Yes No	No	Yes	No	Yes	Yes	Yes

#### Toluene (108-88-3)

US	CA	EU	AU	Ιоц	JP-	JP-	KR-	KR-			
03	CA		ENCS	ISHL	KECI/KECL	TCCA	CN	NZ	MX		
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Chlorinated polypropylene (Trade Secret)

US	CA	EU   AU   PH	JP-	JP-	KR-	KR-			
	CA		ENCS	ISHL	KECI/KECL	L TCCA CN	NZ	MX	
Yes	DSL	No Yes Yes	Yes	No	Yes	No	Yes	Yes	No

#### Heat reactive phenolic resin (Trade Secret)

US	CA	EU   AU   PH	JP- ENCS	KR- KECI/KECL	KR- TCCA	CN	NZ	МХ
Yes	DSL	EIN Yes Yes		Yes		Yes		Yes

#### Isophorondiamine-isobutyraldimine (Trade Secret)

US	CA	EU   AU   PH	JP-	JP-	KR-	KR-			
	CA		ENCS	ISHL	KECI/KECL	TCCA	CN	NZ	MX
Yes	DSL	EIN Yes Yes	Yes	No	No	No	Yes	Yes	No

### Section 16. Other Information

#### **HMIS Rating**

Health: 3 Fire: 3 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard **NFPA Ratings** Health: 3 Fire: 3 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Disclaimer

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