



# TULSTAR PRODUCTS, INC.

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## MATERIAL SAFETY DATA SHEET

### I. Product Information

Trade Name: TS-Polyol Blend  
Generic name: Polyols Blend  
Chemical Family: Polyurethane Polyols  
Proper DOT Hazardous Material Shipping Name: None  
DOT Hazard Class: None

Telephone No.: Chemtrec 800-424-9300

### II. Summary of Hazards

Health:	1	<b>Hazard Scale:</b>	
Fire:	1	0- Minimal	3- Serious
Reactivity:	0	1- Slight	4- Severe
Special:	None	2- Moderate	

### III. Fire and Explosion

Flash Point (Method)	Autoignition Temperature (Method)	Flammable Limits (% vol in air)
Not Determined	Not Determined	Not Determined

**Extinguishing Media:** Dry Chemicals, CO<sub>2</sub>, Waterspray

**Special Fire Fighting Procedures:** Use proper personal protection in fire area. Fight fire from a safe distance or position as heat may cause rupture of vessels or containers due to build up of pressure. Avoid solid water streams because they may spread burning liquid. Use waterspray or fog. Notify authorities if liquids enter the sewers or waterways.

**Fire and Explosion Hazards:** Decompositions at high temperature may cause potentially flammable vapors. Extinguish nearby ignition sources. Foam or water on burning liquid may cause frothing.

#### **IV. Health Hazards**

Primary Routes of Exposure: Inhaled, Eye or Skin contact, Swallowed.

##### **Signs and Symptoms**

Inhalation: Vapors from hot product may irritate respiratory tract.  
Eye Contact: Will cause slight eye irritation accompanied by burning sensation, redness, tears and swelling.  
Skin Contact: May cause slight redness or irritation of the skin.  
Ingestion: No human or animal data are known.

Summary of Chronic Exposure and Special Health Effects:

Medical conditions generally aggravated by exposure: none

#### **V. Emergency and First Aid Measures**

Inhalation: Remove victim to fresh air immediately. Provide oxygen or artificial respiration if necessary. Seek emergency medical attention.

Eye Contact: Immediately rinse with clean water for 20 minutes. Lift both eyelids occasionally. Seek emergency medical attention.

Skin Contact: Remove contaminated clothing, including shoes. Wash skin thoroughly with soap and water. If redness or irritation develops consult with a doctor.

Ingestion: Call a physician immediately. Induce vomiting as directed by medical staff. Never give any substance by mouth to an unconscious person.

#### **VI. Occupational Exposure Limits**

Substance	Permitted Exposure Limit	Source
No standards have been developed for this product.		

#### **VII. Protective Equipment and Control Measures**

Respiratory: With adequate ventilation anticipated in normal use, no special respiratory protection equipment is recommended.

Eye: Wear eye protection such as splash goggles or face shields due to the possibility of eye contact from airborne droplets or vapors. Do not wear contact lenses.

Skin: Protective clothes such as gloves, boots, and aprons should be worn when exposed to open liquids, when cleaning spills, or handling drums. Clothing must be cleaned after it has been worn.

Engineering Controls: Good room and work area ventilation is required.

Work Practice: Wash hands before eating, drinking, smoking, or using the restroom. Promptly remove clothes soiled with this product and wash them thoroughly. Discard clothes if necessary. Use good personal hygiene practices.

### **VIII. Spills and Disposal**

Material Spills: Limit access to spill area. Equip response team with proper personal protective gear. If possible control/stop the cause of the release. For large spills, dike area to prevent release into public waterways. Notify authorities. Soak up small spills with inert solids and place in salvage drums.

Waste Disposal: Incinerate or landfill contaminated solids in a licensed facility in compliance with federal, state and local regulations.

### **IX. Handling and Storage Precautions**

Handling and Storage Practices: Keep away from heat and all sources of ignition in tightly closed drums or properly vented storage tank. Material can be stored in mild steel, stainless steel, aluminum, or fiberglass containers.

General Comments: None.

### **X. Chemical Composition**

<b>Component</b>	<b>CAS No.</b>	<b>Wt. %</b>	<b>Carcinogen</b>
Sucrose & Mannich polymer with 025791-96-2, 009049-71-2		70-80	Not listed
1,1 DICLORO-1-FLUORETANO	1717-006	10-20	
DMCHA	08-94-2	1-10	

### **XI. Physical Properties**

<b>Chemical Name</b>	<b>Alternate Name</b>	<b>Chemical Family</b>
Not available	Not available	Not available
<b>Molecular Formula</b>	<b>Vapor Pressure</b>	<b>Volatility</b>
Not available	Not determined	Not volatile

**Specific Gravity**

Not available

**Vapor SP GR**

Not determined

**Flash Point**

&gt; 110 C

**Hazardous  
Polymerization**

Will not occur

**Other Chemical  
Reactivity**

Isocyanates

**Stability**

Stable at room temperature

Appearance and Odor: Brownish color, liquid withamine little odor.

Conditions to Avoid: High temperatures

Materials to Avoid: Strong oxidizing agents. Can react vigorously with isocyanates.

Decomposition Products: Incomplete burning can create carbon monoxide, carbon dioxide and other toxic gases.

**XII. Regulatory Information**

This product is listed on the U.S. TSCA Inventory

Chemicals subject to the reporting requirements of SARA section 313: None

SARA section 311 and 312 hazard classification: Immediate Health Hazard (eye irritant).

Materials known to California under proposition 65:

Cancer: None.

Reproductive Effects: None.

**XIII. Other Information**

U.S. Label Statements:

DANGER!

CAUSES EYE IRRITATIONS.

CAUSES SKIN IRRITATIONS.

AT ELEVATED TEMPERATURES, VAPORS MAY IRRITATE EYES AND LUNGS.

Do not get in eyes. Avoid contact with skin and clothes.

Avoid breathing vapors or mists.

Keep containers tightly closed.

Wash with soap and water after handling.

First Aid: If swallowed, induce vomiting immediately as directed by medical personnel.

Do not give anything by mouth to an unconscious person. If inhaled, move to fresh air.

Give artificial respiration or oxygen as needed. If contacted with eyes or skin, quickly flush with plenty of water for 20 minutes, removing any contaminated clothes. Get medical attention immediately.

Continue to follow warning labels for empty containers.

CAUTION: FOR USE BY TRAINED PERSONNEL ONLY.

Revision Date: January 30, 2001

Supersedes any before