

# **MATERIAL SAFETY DATA SHEET**

## **I. PRODUCT IDENTIFICATION**

PRODUCT: HT-450 Rigid Foam System Component B MANUFACTURER: HiTHerm, LLC 14056 Artesia Blvd. Cerritos, CA 90703 TEL./FAX: (562) 483-1555/(562) 483-1554

TRADE NAME: HT-450 Component B CHEMICAL NAME: Mixture CHEMICAL FAMILY: Urethane system resin Component

MOL.WEIGHT: Trade Secret FORMULA: Trade Secret DATE REVISED: January 2000

## **II. HAZARDOUS INGREDIENTS**

COMPONENT	CAS No.	%	PEL/TLV-SOURCE
Dimethyl Ester Containing Benzenedicarboxylic Acid	70749-97-2	30-50	Not Established
Diethylene Glycol	111-46-6	2-6	10mg/m <sup>3</sup> (8 hr TWA, aerosol only) AIWA WEEL 50 ppm total ( 8 hr. TWA)
Phenol, 4,4'-(1-Methyldine) Bis-, Polymer with Oxirane	25068-38-6	25-35	Not Established

## III. PHYSICAL DATA

Boiling Point: N.E. Specific Gravity/Bulk Density (H<sub>2</sub>O=1): 1.22-1.24 Vapor Pressure, mm Hg @ 20<sup>0</sup> C: Not Applicable Solubility in Water: Slight Appearance: Light Amber to Dark brown Liquid......Intensity: Slight

## IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): 300<sup>0</sup> F<sup>1</sup> Pensky-Martens Closed Cup Flammability Limits in Air (% by Volume), Upper/Lower: Not Applicable Special Fire Fighting Procedures: Fire Fighters must be equipped with self-contained Breathing apparatus and turnout gear.

## NO UNUSUAL FIRE AND EXPLOSION HAZARDS ARE KNOWN

# *EMERGENCY NUMBERS: INFOTRAC (800) 535-5053; 24 hrs. per day, 7 days per week. Hitherm: (562) 483-1555*

## V. HEALTH HAZARD DATA

Primary Routes of Exposure: Contact with skin or eyes. Product ingestion is unlikely but may occur if proper safety/hygiene procedures are not followed. Exposure may also occur via inhalation if the product is heated misted or sprayed during handling or processing.

#### Effects of Overexposure:

Eye Contact: May cause moderate irritation and possible corneal injury. Vapors may irritate eyes and may cause swelling of the cornea, resulting in visual disturbance such as blurred, smoky or halo vision.

Skin: Prolonged or repeated exposure may cause moderate irritation. The LD50 for skin absorption in rabbits is >2000 mg/kg for similar mixtures. May cause allergic skin reaction in susceptible individuals.

Ingestion: A single dose PEL oral toxicity is believed to be low. Small amounts swallowed incidental to normal handling operations are not likely to to cause injury. Swallowing large amounts may cause injury.

Inhalation: In a confined or poorly ventilated area vapors can readily accumulate and can cause unconsciousness or death due to oxygen displacement. Signs of overexposure may be anaesthetic or narcotic and may increase sensitivity to epinephrine and increased myocardial irritability. Vapors or mist may cause irritation of the upper respiratory tract. See Toxicological Information below for OSHA regulated components.

Emergency And First Aid Procedures:

Eyes (Splash): Flush immediately with copious amounts of running water for at least 15 minutes holding eyelids open. Consult physician.

Skin: Wash affected area with soap and water. For severe exposures, get under safety shower after removing clothing. For lesser exposures, if irritation develops, consult physician.

Ingestion: If swallowed, induce vomiting. NEVER GIVE FLUIDS TO OR INDUCE VOMITING IF THE VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS.

Inhalation: Remove to fresh air; aid in breathing, administer oxygen or artificial respirator if necessary. If necessary, consult physician.

Note To Physician: Exposure may increase "myocardial irritability". Do not administer syniopathomimetic drugs unless absolutely necessary. No specific antidote. Treatment should be based on physician's judgment in response to reaction of patient.

Toxicological Information:

For Phenol, 4',4-(1-Methylidine) Bis-Polymer with Oxirane: Oral LD50....: (Rats) >5000mg/kg Dermal LD50.: (Rabbits) >6000 mg/kg Teratogenicity: (rats, Rabbits) No adverse effect on embryonic or fetal development were observed. Carcinogenicity: Based on all available data, IARC has concluded in 1988 that this product is not classified as a carcinogen.

For Diethylene Glycol:

Diethylene glycol is moderately toxic (estimated LD50 of 1-2 gm/kg body weight), is not irritating to eyes, causes mild skin irritation and is not readily absorbed through the skin. Oral ingestion of large amounts is reported to cause nausea, vomiting, diarrhea and central nervous system depression, anuria and kidney and liver pathology.

Diethylene Glycol is reported to have caused mild to moderate eye irritation, slight skin irritation and found to be of low oral toxicity in animals. Formation of urinary bladder stones has been reported for rodent species.

#### VI. REACTIVITY DATA

Stability.....: Stable

- Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, HCl, HF, oxides of nitrogen, aldehydes.
- Incompatibility (chemicals to avoid): Strong oxidizing agents. Avoid moisture to protect product quality.

Condition To Avoid.....: Exposure to moisture and temperatures  $>85^{\circ}$  F. Hazardous Polymerization.....: Does not occur.

#### VII. SAFE HANDLING AND USE INFORMATION

Respiratory Protection.....: None needed at normal temperatures. If vapors are generated wear an organic vapor respirator as necessary. Ventilation.....: Use local exhaust to maintain work area below PEL and TLV. Protective Clothing.....: Rubber gloves recommended for direct contact. Eye Protection.....: Safety goggles recommended. Other Protective Equipment...: No special requirements. Avoid contact with skin as required by good hygiene practice. Remove and wash contaminated clothing before re-use.

#### VIII. REGULATORY INFORMATION AND ENVIRONMENTAL DATA

Environmental Toxicity Data......: None available
Spill And Leak Procedures.....: Resin component is not regulated under RCRA or CERCLA (Superfund). Spills should be contained, solidified and placed in Suitable containers for disposal.
The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title IV and of CFR 372 or subject to other EPA
Regulations.....: NONE
Hazardous Waste 40 CFR 261.....: No
Hazardous Waste Number.....: None
Container Disposal.....: Dispose of in licensed facility. Crushing or other means to prevent unauthorized re-use recommended.

NFPA 704M Ratings:	Health	Flammability	React	ivity	Other
	2	1	0		0
0=insignificant	1=Slight	2= Moderate	3= High	4= Extreme	

#### **IX. ADDITIONAL REGULATORY INFORMATION**

DOT Proper Shipping Name: Not Available					
DOT Proper Shipping Classification (CFR 172.101-102): Primary: None					
	Secondary: None				
DOT Labeling Requirements (49 CFR 172.101-102)	: None				
DOT Placard Requirements (49 CFR 172.504)	: None				
Poison Constituent (49 CFR 172.203 k)	: None				
Bill Of Lading Description	.: Plastics, synthetic liquid				
	NOIBN				
UN/NA Code	: None Assigned				

We believe that the information contained in this MSDS is current. Since the use of this information and the conditions of the use of the product are not within our control, it is the users obligation to determine the conditions of safe use of this product. The information herein is given in good faith, but no warranty, expressed or implied, is made.