

# Material Safety Data Sheet

Date last revised JULY 2011

<b>I. GENERAL INFORMATION</b>		
Chemical Name & Synonyms AROMATIC ISOCYANATE	Trade Name & Synonyms DYNAFLEX ACTIVATOR	
Chemical Family URETHANE	Formula MIXTURE	
Proper DOT Shipping Non-Regulated	DOT Hazard Classification N/A	
Manufacturer PECORA CORPORATION	Manufacturer's Phone Number 215-723-6051	
Manufacturer's Address 165 Wambold Road, Harleysville, PA 19438	Chemtrec Phone Number 800-424-9300	
<b>II. INGREDIENTS</b>		
Principal Hazardous Components	Percent	Threshold Limit Value (Units)
URETHANE PREPOLYMER (CAS # 1321-38-6)	> 95	NOT ESTABLISHED
TOLUENE DIISOCYANATE (CAS # 26471-62-5)	> 5	0.02 PPM PEL
THIS PRODUCT CONTAINS TOLUENE DIISOCYANATE WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA, 40 CFR, PART 372. THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.		
HEALTH 3	FLAMMABILITY 1	REACTIVITY 2
<b>III. PHYSICAL DATA</b>		
Boiling Point (°F) 484° F. (TDI)	Specific Gravity (H <sub>2</sub> O = 1) 1.05	
Vapor Pressure (mm Hg.) 0.025 @ 77° F. (TDI)	Percent Volatile by Volume (%) NEGLIGIBLE	
Vapor Density (Air = 1) 6.0 (TDI)	Evaporation Rate (ETHER= 1) SLOWER	
Solubility in Water INSOLUBLE	pH N/A	
Appearance & Odor CLEAR, LIGHT YELLOW LIQUID		
<b>IV. FIRE &amp; EXPLOSION HAZARD DATA</b>		
Flash Point (Test Method) > 200° F. T.C.C.	Auto Ignition Temperature UNKNOWN	
Flammable Limits UNKNOWN	LEL UNKNOWN	UEL UNKNOWN
Extinguishing Media: DRY CHEMICAL, WATER FOG, FOAM & CARBON DIOXIDE		
Special Fire Fighting Procedures: SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN WHEN FIGHTING FIRES INVOLVING CHEMICALS.		
Unusual Fire & Explosion Hazards: AT TEMPERATURES GREATER THAN 350° F. (177° C), TDI FORMS CARBODI MIDES WITH THE RELEASE OF CO <sub>2</sub> WHICH CAN CAUSE PRESSURE BUILD UP IN CLOSED CONTAINERS. USE COLD WATER TO COOL FIRE-EXPOSED CONTAINERS.		

**V. Health Hazard Data**

OSHA Permissible Exposure Limit SEE SECTION II	ACGIH Threshold Limit Value SEE SECTION II
Carcinogen – NTP Program TDI	Carcinogen – IARC Program TDI
Symptoms of Exposure: NO ILL EFFECTS REPORTED IN THE NORMAL USE OF THIS COMPOUND. INHALATION OF VAPORS MAY CAUSE IRRITATION TO LUNGS AND PULMONARY EDEMA MAY OCCUR AFTER SERIOUS VAPOR EXPOSURE. PULMONARY SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS.	
Medical Conditions Aggravated By Exposure: PRECLUDE FROM EXPOSURE THOSE INDIVIDUALS HAVING A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE AND TDI SENSITIZATION.	
Primary Route (s) of Entry: DERMAL AND INHALATION	
Emergency First Aid: SKIN: WASH WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR. AID BREATHING IF NECESSARY. OBTAIN MEDICAL ATTENTION IMMEDIATELY. EYES: FLUSH WITH WATER FOR 15 MINUTES. INGESTION: GIVE LARGE AMOUNTS OF WATER TO DILUTE MATERIAL AND CONSULT A PHYSICIAN IMMEDIATELY.	

**VI. REACTIVITY DATA**

Stability		Unstable	Conditions to Avoid  HIGH TEMPERATURES
	X	Stable	
Incompatibility			Materials to Avoid WATER OR MOISTURE AND ANY OTHER PRODUCTS THAT REACT WITH ISOCYANATES.
Hazardous		May Occur	Conditions to Avoid
	X	Will Not Occur	
Polymerization	X	Will Not Occur	HIGH TEMPERATURES AND CONTACT WITH MOISTURE.
Hazardous Decomposition Products: TDI VAPORS, OXIDES OF NITROGEN, CO AND HCN			

**VII. ENVIRONMENTAL PROTECTION PROCEDURES**

Spill Response: SCRAPE UP AND PLACE IN CONTAINERS. ALLOW TO HARDEN IN OPEN CONTAINERS. CO<sub>2</sub> WILL BE EVOLVED. FINISH CLEANING AREA WITH A SOLVENT SUCH AS CELLOSOLVE ACETATE. FOLLOW SOLVENT MANUFACTURE' S PRECAUTIONS.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS

**VIII. SPECIAL PROTECTION INFORMATION**

Eye Protection GLASSES OR GOGGLES	Skin Protection NEOPRENE GLOVES, IF NECESSARY
Respiratory Protection (Specific Type) NIOSH ORGANIC VAPOR RESPIRATOR FOR CONFINED AREAS	Ventilation Recommended LOCAL OR MECHANICAL
Other Protection: BARRIER SKIN CREAM	

**IX. SPECIAL PRECAUTIONS**

Hygienic Practices In Handling & Storage: WASH HANDS AFTER USE AND BEFORE EATING OR SMOKING. STORE IN UNOPENED CONTAINERS AT OR BELOW 80° F. (27° C.) TO PROLONG SHELF LIFE.

Precautions For Repair & Maintenance of Contaminated Equipment:  
SEE SECTION VI AND VIII

Other Precautions: THIS PRODUCT CONTAINS DIISOCYANATES. AVOID PROLONGED BREATHING OF VAPORS AND CONTACT WITH EYES AND SKIN. FOR COMMERCIAL USE ONLY.

**KEEP OUT OF REACH OF CHILDREN!!!!**