

# MATERIAL SAFETY DATA SHEET

**Product Name:**

ULTRA-FLEX 5000S Part "B"

Chemical Family:	Polymeric Modified Diisocyanate	Formula:	Not Applicable (Mixture)
Product Code:	N/A	Maintenance Date:	January 12, 2000
		Synonyms:	Diisocyanate

HMIS CODE: Health = 1 , Flammability = 0 , Reactivity = 1 , Specific Hazard = 0

## SECTION I

Southern Chem Industries Inc.  
153 West Fifth Street.  
LaPlace, Louisiana 70069

Emergency Phone #: 1-800-424-9300  
Information Phone # 985-652-5198  
Date Prepared: February 1997

## SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	( % )	THRESHOLD LIMIT VALUE (UNITS)
Polymeric Diphenylmethane Diisocyanate, Polymeric MDI	9016-87-9	80-100	Not Listed
4,4 <sup>1</sup> Diphenylmethane Diisocyanate MDI Isomers/Oligomers	101-68-8		0.005ppm Not Listed
MDI Homopolymer	25686-28-6	1-10	Not Listed

### HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES

4,4 <sup>1</sup> Diphenylmethane Diisocyanate (Exposure limits per 8 hour, 40 hours/week)	0.005ppm
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## SECTION III PHYSICAL DATA

Appearance & Odor :	Brown Liquid Slight Sweet Odor		
Boiling Point :	N/A	Melting Point :	N/A
Vapor Pressure (mmHg) :	Approx. 4 X 10	Vapor Density (AIR=1) :	8.5 Approx.
Specific Gravity (H <sub>2</sub> O = 1) :	1.2183	Volatile (Of Organic Component) :	N/A
Evaporation Rate (Water =1):	N/A	Solubility in Water:	Reacts with water.

## SECTION IV FIRE AND EXPLOSION DATA

Flash Point:	350 F (190.6C) JEC
Flammable Limits:	Lower Explosive Limit: None Upper Explosive Limit: None
Extinguishing Media:	CO <sub>2</sub> , Dry Chemical. If water is used, very large quantities are required. Reaction between water and hot isocyanate maybe vigorous
Special Procedures for Fighting Fire:	As appropriate for surrounding materials/equipment. Self-contained Breathing Apparatus and Protective Clothing.
Unusual Hazards:	Containers may burst under intense heat.. Due to reaction with water, a hazardous build-up of pressure could result if contaminated containers are resealed.
Combustion Products:	Carbon monoxide, carbon dioxide, nitrogen oxides and some HCN.

**SECTION V HEALTH HAZARD INFORMATION**

**THRESHOLD LIMIT VALUE:** TLV 0.05ppm/8hour day-40 hour week / Oral LD50 (rat)>5,000mg/kg/Dermal LD50 (rabbit) >5,000mg/hg/ Inhalation LC50 (rat) = 49 mg/m3 (respirable aerosol).

**Effects of Overexposure:** This product is a respiratory irritant and a potential respiratory sensitizer. Repeated inhalation of vapor or aerosol at levels above the TLV could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of throat and tightness of chest and difficulty breathing. The onset of respiratory symptoms may be delayed for several hours after exposure.

**Emergency First Aid -** Inhalation: Remove patient from exposure keep warm and rested. Remove

**SECTION VI REACTIVITY DATA**

**STABILITY:** Stable -- Stable at room temperature Unstable – Reacts with products containing active hydrogen. Avoid high temperatures. Avoid freezing. This product will react with any materials containing active hydrogen such as water, alcohol, amines, bases and acids.

**Incompatibility (Materials to Avoid):** Hazardous Polymerization: Polymerization may occur at elevated temperatures in the presence of alkalines, tertiary amines and metal compounds.

**Conditions to Avoid:** Polymerization may occur at elevated temperatures in the presence of alkalines, tertiary amines and metal compounds.

**Hazardous Decomposition Products:** None Polymerization produces inert and non-biodegradable solids.

**SECTION VII SPILL OR LEAK PROCEDURES**

**Steps to Be Taken in Case Material Is Released or Spilled:** Clean-up should only be performed by trained personnel. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION.. Evacuate area. Prevent further leakage, spillage or entry into drains. Contain and absorb spillage with inert non-flammable carrier such as sand. SWEEP UP SPILL AND PLACE IN PROPER WASTE CONTAINER FOR DISPOSAL. Wash the spillage area clean with liquid decontaminate. Test atmosphere for MDI vapor. Notify applicable government authorities if release is reportable. The CERCLA RQ for MDI is 5,000 lbs.

**Waste Disposal Method of Spill or Leak:** Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for ammonium hydroxide) allow deactivated material to stand for at least 30 minutes before shoveling into drums. This material is non-hazardous waste under RCRA 40 CFR 261.

**SECTION VIII SPECIAL PROTECTION INFORMATION**

**Respirator:** Use NIOSH/MSHA approved positive air supplied respirator equipped with full face piece on an air supplied hood if airborne concentrations exceed or are expected to exceed the TLV.

**Ventilation Local:** YES Use local exhaust to maintain airborne concentrations below TLV.

**Mechanical: YES** General guidance for engineering control measures refer to ACGIH publication "Industrial Ventilation"

**Hands:** GLOVES – Neoprene, nitrile-butadiene rubber, butyl rubber.

**Eyes:** Chemical GOGGLES or FULL FACE SHIELD if splash conditions exist.

**Other:** Protective clothing in accordance with guidelines for the selection of Chemical Protective Clothing published by ACGIH.

**SECTION IX SPECIAL PRECAUTIONS**

This material should be stored at temperatures above 77 F (25 C) to prolong useful life and prevent dimerization which will effect the shelf life of the product. Keep from freezing and prolonged exposure to temperatures below 60 F.

**SECTION X TRANSPORTATION DATA**

DOT: Not Regulated / TDG: Not Regulated / IMO: Not Regulated / IATA11CAO: Not Regulated

DOT Classification: 55 SHIPPING DATA: AVOID FREEZING TEMPERATURES.

DOT PROPER SHIP NAME: Ultra-Flex 5000S Part "B" DOT HAZARD CLASS: N/A  
DOT LABELS: N/A UN/ NA NUMBER: N/A