



Material Safety Data Bulletin

SECTION I

MANUFACTURER'S NAME: Universal Polymer Corp.		EMERGENCY TEL: (714) 597-7716
ADDRESS: 14989 S. Sierra Bonita Lane, Chino, Calif. 91710		
CHEMICAL NAME: MAXFLEX UPC 285	TRADE NAME: MAXFLEX 285 Component A	
CHEMICAL FAMILY: Polymeric Isocyanate	FORMULA:	

SECTION II: HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Diphenylmethane Diisocyanate	~ 70	0.02 PPM
Higher Polymers of similar structure	~ 30	
Halogenated Fire retardant	~ 0	
CYCLOPENTANE	~ 5	

SECTION III: PHYSICAL DATA

BOILING POINT @ 5 mm HG 406	208°C	SPECIFIC GRAVITY (H ₂ O=1)	1.24
VAPOR PRESSURE (mm Hg.) @ 25 C	1x10 ⁻³	PERCENT VOLATILE	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE	
SOLUBILITY IN WATER	Insoluble		
APPEARANCE & ODOR	Brown viscous liquid- odor, very slightly aromatic		

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 415°F (213°C) C.O.C.			
FLAMMABLE LIMITS: Fire point ~ 450°F	Lel	232°C	Uel C.O.C.
EXTINGUISHING MEDIA: CO ₂ , dry chemical, foam or water-fog may be used.			
SPECIAL FIRE FIGHTING PROCEDURES: The usual fireman's body protection should be worn as well as self-contained breathing apparatus to protect from vapors formed the product.			
UNUSUAL FIRE AND EXPLOSION HAZARDS:			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
0.02 ppm for Diphenylmethane Diisocyanate.
EFFECTS OF OVEREXPOSURE
chest, irritation of respiratory tract, coughing, headache, shortness of breath. Exposure can lead to allergenic sensitivity.
EMERGENCY AND FIRST AID PROCEDURES
Skin-wash with soap and water at least 5 min. Eyes-wash with large amounts of water for a minimum of 15 min. consult eye physician. Internal-induce vomiting-consult physician; Inhalation-remove to uncontaminated area-administer oxygen by authorized person if necessary.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE		50°C (121°F) or below 0°C (32°F)
INCOMPATIBILITY (MATERIALS TO AVOID) Avoid contact with water, alcohols, strong bases, metal compounds or surface active materials.			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Contact with moisture and other materials which
	WILL NOT OCCUR	X	react with isocyanates.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Absorb in an absorbant sweeping/cleaning compound (e.g. "oil-dry") remove from area in open drums treat with water containing 1% ammonia before disposal.
WASTE DISPOSAL METHOD
Disposal of waste should be in accordance with federal, state, and local regulations regarding environmental control.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE)	Canister type gas masks equipped for organic vapors; masks supplied from external air sources: self contained.	LOCAL EXHAUST VENTILATION	to maintain vapor concentration below TLV.	SPECIAL breathing equip.
		MECHANICAL (GENERAL)		OTHER
PROTECTIVE GLOVES	Chemically resistant rubber or plastic gloves.	EYE PROTECTION	Chemical safety goggles.	
OTHER PROTECTIVE EQUIPMENT	Safety showers and eye wash stations should be available.			

SECTION IX SPECIAL PRECAUTIONS

PRECAUTION TO BE TAKEN IN HANDLING AND STORING
This isocyanate should be protected from water by a dry atmosphere and mainted at 65° - 75° F.
OTHER PRECAUTIONS

LEGAL RESPONSIBILITY IS ASSUMED ONLY FOR THE FACT THAT ALL STUDIES REPORTED HERE AND ALL OPINIONS ARE THOSE OF QUALIFIED EXPERTS.