

**MATERIAL SAFETY DATA SHEET**

**COMPOSITE POLYMER DESIGN  
PO BOX 58  
949 S. CONCORD  
S. ST. PAUL, MN 55075  
800-755-8568**

**PRODUCT: CPD 9107 (PART A)**

**HAZARDOUS  
MATERIAL  
IDENTIFICATION  
SYSTEM**

HEALTH HAZARD	2-MODERATE
FLAMMABILITY HAZARD	1-SLIGHT
REACTIVITY HAZARD	0-SLIGHT
PERSONAL PROTECTION	G-GLASSES, GLOVES ORGANIC VAPOR MASK

**SECTION I. MATERIAL IDENTIFICATION**

**TRADE/MATERIAL NAME: CPD 9107 (PART A)**

**DESCRIPTION: POLYURETHANE PREPOLYMER**

**CAS: MIXTURE**

**MSDS REVISION DATE: JANUARY 21, 1998**

**SHIPPING NAME (49 CFR 172.101): ISOCYANATE, TOXIC, SOLUTION, N.O.S.  
METHYLENE BIS(4-CYCLOHEXYLISOCYANATE)**

**D.O.T. HAZARD CLASS: 6.1**

**D.O.T. ID NO. (49 CFR 172.101): UN2206**

**D.O.T. PACKING GROUP: III**

**D.O.T. LABEL REQUIRED (49 CFR 172.101): KEEP AWAY FROM FOOD**

**EPA HAZARD CLASS - IF DISCARDED (40 CFR 261): NONE**

**FOR CHEMICAL EMERGENCIES CALL CHEMTREC 1-800-424-9300**

**SECTION II. INGREDIENTS AND HAZARDS**

INGREDIENT NAME:	CAS NUMBER	PERCENT	EXPOSURE LIMITS
DICYCLOHEXYLMETHANE 4,4-DIISOCYANATE	5124-30-1	5-15	0.005 PPM TWA (ACGIH) 0.010 PPM CEILING (OSHA)

**REMAINING INGREDIENTS ARE NOT REGULATED BY OSHA AND ARE CONSIDERED TRADE SECRETS.**

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**SECTION III. PHYSICAL DATA**

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APPEARANCE AND ODOR: CLEAR LIQUID.  
BOILING POINT: DECOMPOSES  
WATER SOLUBILITY(%): NOT SOLUBLE  
VAPOR DENSITY(AIR=1): NOT AVAILABLE  
EVAPORATION RATE: (N-BUTYL ACETATE = 1): NOT APPLICABLE  
SPECIFIC GRAVITY (H<sub>2</sub>O =1): 1.03  
VAPOR PRESSURE: 0.001 MMHG @25C H<sub>12</sub>MDI  
% VOLATILE BY VOLUME: NEGLIBLE

DURING APPLICATION AND CURING:  
VOC MATERIAL (G/LITER): 0

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**SECTION IV. FIRE AND EXPLOSION DATA**

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FLASH POINT (METHOD): >395 F (CC) LIMITS: LEL %: NE UEL %: NE  
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL,  
WATER FOG  
USUAL FIRE OR EXPLOSION HAZARDS: CONTAINERS MAY RUPTURE IF EXPOSED TO  
EXTREME HEAT OR MOISTURE CONTAMINATION.  
SPECIAL FIRE HAZARDS: FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED  
BREATHING APPARATUS WITH FULL FACE PIECE AND POSITIVE  
PRESSURE. SPRAY CONTAINERS EXPOSED TO HEAT WITH WATER  
TO KEEP COOL AND TO MINIMIZE THE POSSIBILITY OF RUPTURE.

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**SECTION V. REACTIVITY DATA**

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**MATERIAL IS STABLE. HAZARDOUS CONDITIONS MAY DEVELOP UPON LONG TERM CONTACT WITH MOISTURE IN A CLOSED CONTAINER DUE TO CARBON DIOXIDE EVOLUTION & RESULTING IN PRESSURE BUILDUP.**

CHEMICAL INCOMPATIBILITIES: WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE ACTIVE MATERIALS.

CONDITIONS TO AVOID: MOISTURE AND HIGH HEAT

HAZARDOUS DECOMPOSITION PRODUCTS: BY HIGH HEAT AND FIRE, COX, NOX, AND TRACES OF HCN.

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**SECTION VI. HEALTH HAZARD INFORMATION**

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THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY IARC, NTP OR OSHA.

CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: ALLERGY, ECZEMA, OR  
SKIN CONDITIONS.

PRIMARY ENTRY ROUTE(S): INHALATION OF VAPORS OR SKIN CONTACT.

ACUTE EFFECT(S): WILL MODERATELY IRRITATE SKIN AND EYES. ISOCYANATE VAPOR CAN  
IRRITATE THE RESPIRATORY TRACT CAUSING RUNNY NOSE, SORE  
THROAT, COUGHING AND REDUCED LUNG FUNCTION.

CHRONIC EFFECT(S): MAY CAUSE LUNG SENSITIZATION. REPEATED VAPOR OVEREXPOSURE  
OR A SINGLE LARGE DOSE MAY CAUSE CHEMICAL ASTHMA OR OTHER  
ALLERGIC RESPONSE, WHICH WILL CAUSE A LATER REACTION TO AN  
ISOCYANATE AT LEVELS BELOW THE TLV. MAY CAUSE SKIN  
SENSITIZATION WITH ACCOMPANYING RASH.

**FIRST AID:**

EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. CONTACT A  
PHYSICIAN IMMEDIATELY.

SKIN CONTACT: WASH WITH SOAP AND WATER. WASH CONTAMINATED CLOTHES AND  
DESTROY CONTAMINATED SHOES. SEEK MEDICAL ATTENTION IF THERE  
IS A SEVERE EXPOSURE.

INHALATION: NOT LIKELY EXCEPT UNDER CONDITIONS OF SPRAY AND/OR HEAT.  
REMOVE TO FRESH AIR. CONTACT PHYSICIAN IMMEDIATELY.

INGESTION: DILUTE BY GIVING WATER OR MILK TO DRINK IF VICTIM IS  
CONSCIOUS. CONTACT PHYSICIAN OR REGIONAL POISON CONTROL  
CENTER IMMEDIATELY.

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SECTION VII. SPILL, LEAK, AND DISPOSAL INFORMATION

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ONLY PROPERLY PROTECTED PERSONNEL SHOULD REMAIN IN AREA AND TRANSFER MATERIALS

SPILL / LEAK PROCEDURES: USE ABSORBENT MATERIAL OR SCRAPE UP DRIED MATERIAL AND PLACE INTO OPEN TOP CONTAINERS. COVER LOOSELY FOR 24 HRS BEFORE SEALING.

WASTE MANAGEMENT / DISPOSAL: DISPOSE OF ACCORDING TO FEDERAL, STATE AND LOCAL STANDARDS. DO NOT REUSE EMPTY CONTAINERS.

SARA TITLE II REGULATORY INFORMATION:

SECTION 302: DOES NOT CONTAIN

SECTION 311/312: CATEGORIES FOR TIER I AND TIER II REPORTING:

REACTIVITY, IMMEDIATE (ACUTE) HEALTHS, DELAYED (CHRONIC) HEALTH.

SECTION 313: NOT LISTED

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SECTION VIII. SPECIAL PROTECTION INFORMATION

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PERSONAL PROTECTIVE EQUIPMENT:

GOGGLES: SPLASH-PROOF CHEMICAL GOGGLES

GLOVES: IMPERVIOUS SYNTHETIC GLOVES.

RESPIRATOR: NORMALLY NOT NEED IN OPEN, WELL-VENTILATED AREAS. IN CONFINED, UN-VENTILATED AREAS USE ORGANIC VAPOR RESPIRATOR IF TLV IS NOT EXCEEDED. FOR EXPOSURE IN EXCESS OF THE TLV, AN AIR SUPPLIED RESPIRATOR WOULD BE REQUIRED.

WORKPLACE CONSIDERATIONS:

VENTILATION: AVOID INHALATION OF VAPORS. PROVIDE SUFFICIENT MECHANICAL VENTILATION (LOCAL OR GENERAL EXHAUST) TO MAINTAIN EXPOSURE BELOW TLV. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. THIS MATERIAL SHOULD BE CONFINED AS FAR AS POSSIBLE WITHIN SEALED OR COVERED EQUIPMENT IN WHICH CASE NORMAL ROOM VENTILATION SHOULD BE ADEQUATE. SPECIAL (LOCAL) VENTILATION WILL BE NEEDED IN AREAS WHERE VAPORS ARE EXPECTED TO BE VENTED.

SAFETY STATIONS: PROVIDE EYEWASH AND IMPERVIOUS APRON IF BODY CONTACT WITH PRODUCT MAY OCCUR.

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CONTAMINATED EQUIPMENT: WASH CONTAMINATED CLOTHING BEFORE REUSE.

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**SECTION IX. SPECIAL PRECAUTIONS**

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STORAGE SEGREGATION: STORE AWAY FROM WATER, STRONG BASES, ALCOHOLS.

SPECIAL HANDLING / STORAGE: KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.  
KEEP CONTAINERS FROM EXCESSIVE HEAT AND FREEZING.  
PROVIDE VENTILATION IN STORAGE AREA. KEEP OUT OF  
REACH OF CHILDREN. DO NOT STORE AT TEMPERATURES  
ABOVE 85 F.

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY ACCEPTABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE IF THEY ARE APPROPRIATE.