

## Material Safety Data Sheet

### Section 1: Product Information

<b>Manufacturer's Name / Address:</b> Versatile Building Products, Inc. 245 Carl Karcher Way Anaheim, CA 92801 <b>Info. Phone:</b> 714-829-2600 <b>Emergency Phone:</b> Infotrac (800) 535-5053	<b>Trade Name:</b> 5050 Polytop B-Comp. <b>Chemical Family:</b> Aliphatic Isocyanate Mixture  <b>Intended Use:</b> Curing agent for polyols.
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**Initial Issue Date:** 8/9/7      **Revision Date:** NA      **Prepared By:** P. Dalvi

### Section 2: Hazardous Ingredients

<u>Hazardous Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>% (Optional)</u>
Homopolymer of Hexamethylene Diisocyanate	NE	NE	TWA .5mg/m <sup>3</sup> , STEL 1.0mg/m <sup>3</sup>	50-70
Hexamethylene Diisocyanate CAS 822-06-0	NE	.005ppm TWA	ND	<0.1
Exempt solvent mixture	NE	NE	NE	30-50

**VOC of Component:** 0 g/L

**VOC As Applied:** 0 g/L

### Section 3: Physical Data

<b>Boiling Point (°C):</b> ND <b>Vapor Pressure:</b> ND <b>Vapor Density:</b> >1 (Air = 1) <b>Solubility in Water:</b> Partial <b>Freezing Point</b> ND <b>Coefficient of Oil/Water Distribution:</b> <b>Appearance and Odor:</b> <b>Odor Threshold:</b>	<b>Specific Gravity:</b> 1.1-1.15 <b>Melting Point:</b> NE <b>Evaporation Rate:</b> <1 (Butyl Acetate = 1) <b>pH:</b> ND ND Clear to pale yellow liquid w/ fruity solvent odor. ND
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### Section 4: Fire and Explosion Hazard

<b>Flash Point (°C):</b> <b>Conditions of Flammability:</b> <b>Flammable Limits:</b>  <b>Autoignition Temperature (°C):</b> <b>Hazardous Combustion Products:</b> <b>Sensitivity to Impact:</b> <b>Sensitivity to Static Discharge:</b> <b>Extinguishing Media:</b> <b>Special Firefighting Procedures:</b> <b>Unusual Fire and Explosion Hazards:</b>	43 NA <b>LEL:</b> ND <b>UEL:</b> ND  ND Carbon monoxide, carbon dioxide, NOx None May ignite product. Dry foam, chemical, carbon dioxide, water spray. Use self-contained breathing apparatus and full protective clothing. HDI vapors and other irritating toxic gases may be generated by combustion. Heated containers may rupture. Cool containers with water spray.
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**Section 5: Health Hazard Data**

**Primary Routes of Entry:**  Eye  Inhalation  Skin Contact  Ingestion

**Overexposure Effects:** Dizziness, nausea, headaches, drowsiness, unconsciousness and death.

**Conditions Aggravated by Exposure:** Respiratory tract conditions such as asthma and bronchitis: existing skin dermatitis and rashes may be aggravated by exposure. Pre-existing sensitization to isocyanates.

**Health Hazards (Acute and Chronic Exposures):**

**Inhalation**

Acute:

Irritation and soreness in the respiratory tract. Sore throat, coughing, discomfort, shortness of breath. Headache, dizziness, nausea, narcosis, fatigue and loss of appetite.

Chronic:

Isocyanate sensitization (chemical asthma.) Symptoms are similar to asthma and vary in intensity. Permanent lung damage may occur. Solvent content may lead to damage to the brain and nervous system.

**Skin Contact**

Acute:

Irritation, redness, and pain. Swelling, rash, scaling, and blistering. Skin sensitization may occur. Skin contact may lead to skin dermatitis..

Chronic:

Chronic skin exposure will give effects similar to chronic inhalation. Those with skin sensitization may develop symptoms of exposure by small amounts of skin contact and/or inhalation.

**Skin Absorption**

Acute:

ND

Chronic:

ND

**Eyes**

Acute:

Vapors are irritating to the eye and can cause tearing, reddening, and swelling accompanied by a stinging sensation.

Chronic:

May result in corneal opacity (clouding of the eye surface). Prolonged vapor contact may cause conjunctivitis.

**Ingestion**

Acute:

Irritation of the gastrointestinal tract. Nausea. May be corrosive to the gastrointestinal lining. Vomiting may cause aspiration of the solvent resulting in chemical pneumonitis.

Chronic:

ND

**Emergency and First Aid Procedures:**

**General:**

Treat symptomatically. If not breathing administer artificial respiration.

**Eyes:**

Immediately rinse eyes with a direct stream of water for 15 minutes while holding the eyelids open. Seek medical attention if symptoms persist.

**Skin:**

Immediately wash contaminated skin with abundant water and mild soap. If symptoms persist seek medical advice.

**Inhalation:**

Remove effected person to fresh air. Administer artificial respiration if not breathing and unconscious. Give oxygen if breathing is labored. Seek medical attention. Symptoms may develop in a delayed manner relative to exposure.

**Ingestion:**

DO NOT INDUCE VOMITING. Give 1-2 cups of milk. Seek medical attention immediately.

**Carcinogenic Data:**

NTP: ND

OSHA: ND

IARC: Suspected 2B Carcinogen: Ethylbenzene (traceable impurity from xylene)

**Toxicological Data:**

Based on most toxic component: ORAL LD50(Rat) 10,000 g/KG, Dermal LD50 (Rabbit) 5000 g/KG, LC50 (Rat) 137-1150 ppm

(NA = Not Applicable) (NE = Not Established) (ND = No Data)  
(NR = Not Required)

**Section 6: Reactivity Data**

**Chemical Stability:**  Stable  Unstable

**Conditions to Avoid:** Excessive heat and cold, moisture.

**Incompatibility (Materials to Avoid) :** Strong oxidizers, concentrated acids, amines, water, and alcohols.

**Hazardous Decomposition Products:** From combustion: Carbon monoxide, carbon dioxide, NOx

**Hazardous Polymerization (Reactivity) :**  Will Not Occur  May Occur – Reacts w/ moisture and heat.

**Section 7: Spill and Leak Procedures:**

**Steps to be Taken in Case of Material Release or Spillage:** Evacuate non-essential personnel. Remove sources of ignition. Ventilate area. Contain spill. Notify proper authorities as necessary. Cover spill with absorbant material. Collect spill in appropriate waste container.

**Waste Disposal Methods:** Dispose of material in accordance with local, state and federal regulation.

**Ecological Information:** Low potential to effect aquatic organisms. Low potential to bioconcentrate.

**Ecotoxicity:** Based on most hazardous component: 96-h LC-50 (fathead minnow) : 9090ug/L

**Section 8: Special Protection Information**

**Engineering Controls:** Ventilation to maintain TWA and STEL exposure limits. Shut off all open sources of ignition.

**Respiratory Protection:** NIOSH approved respirator capable of filtering organic solvents must be worn when handling product.

**Protective Gloves:** Nitrile or butyl rubber gloves must be worn when handling the product. NO Vinyl gloves.

**Eye Protection:** Chemical goggles or face shield must be worn when handling the product.

**Other protective Equipment:** Eye wash station and emergency shower should be in close proximity to areas where product is being handled. Impermeable clothing should be worn. Clean contaminated clothing before reuse.

**Section 9: Handling and Storage**

**General:** Store away from open sources of ignition, excessive heat, excessive cold, oxidizers, strong acids, moisture, amines; store in well ventilated areas.

**Section 10: Supplemental Information****Health:** 2**Flammability:** 2**Reactivity:** 1**DOT Proper Shipping Name:** Non-Regulated**Hazard Class:** Non-Regulated**UN Number:** Non-Regulated**Packing Group:** NA**IMO Shipping Data:** Non-regulated**ICAO/IATA Shipping Data:** Non Regulated**TSCA (Toxic Substance Control Act) :**

All components of this product are listed in the TSCA inventory.

**CERCLA (Comprehensive Response Compensation and Liability Act):**

Reportable quantity : none

**SARA Title III:**

Section 311/312 Reactive Hazard.

Section 313 Reportable Ingredients: None

**California Proposition 65:** Below is a list of compounds known to the State of California to cause cancer, birth defects, or other reproductive harm:

None

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