

## Material Safety Data Sheet

### Section 1: Product Information

<b>Manufacturer's Name / Address:</b> Versatile Building Products 20420 S. Susana Road Carson, CA 90810 <b>Info. Phone:</b> 310-632-6500 <b>Emergency Phone:</b> Infotrac (800) 535-5053	<b>Trade Name:</b> 5000 Polyurea B-Comp. <b>Chemical Family:</b> Aliphatic Isocyanate Mixture  <b>Intended Use:</b> Curing agent for 5000 polyurea. A-comp.
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**Initial Issue Date:** 7/1/5      **Revision Date:** 3/5/7      **Prepared By:** P. Dalvi

### Section 2: Information on Ingredients

<u>Ingredient (CAS #)</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
Hexamethylene Diisocyanate CAS 822-06-0	NE	.005ppm TWA	ND	<0.1

**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>	193 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:** 1**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 of HDI (CAS# 822-06-0) : 100 lbs.

**SARA Title III:**

Section 311/312 : Reactive Hazard.

Section 313 Reportable Ingredients: Hexamethylene Diisocyanate CAS 822-06-0

**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

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the accuracy of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects, which may be caused by exposure to our products. Customers and users of this product must comply with all applicable health and safety laws, regulations and orders.