

# Material Safety Data Sheet

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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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Phone Number: 86-517-87615985

Product: BD2-8000

Huaian Bud Polyurethane Science & Technology Co., Ltd

Web: [www.njchm.com](http://www.njchm.com)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Polyether polyol

CAS NO: 9003-11-6

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

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\* Viscous liquid. Slight odor. No significant immediate hazards\*  
\* for emergency response are known.\*  
\*\*\*\*\*

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause pain. May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: Prolonged or repeated exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Material may be handled at elevated temperatures; contact with heated material may cause thermal burns.

INGESTION: Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: At room temperature, vapors are minimal due to physical properties; a single exposure is not likely to be hazardous. If material is heated or mist is produced, concentrations may be attained that are sufficient to cause respiratory irritation.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No relevant information found.

CANCER INFORMATION: No relevant information found.

#### 4. FIRST AID

EYE: Flush eyes with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

#### 5. FIRE FIGHTING MEASURES

##### FLAMMABLE PROPERTIES

FLASH POINT: Not determined.

AUTOIGNITION TEMPERATURE: Not determined.

##### FLAMMABILITY LIMITS

LFL: Not determined

UFL: Not determined

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of this product decompose. The smoke may contain unidentified toxic and/or irritating compounds.

OTHER FLAMMABILITY INFORMATION: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto ignition temperatures possibly resulting in spontaneous combustion.

EXTINGUISHING MEDIA: Water fog or fine spray. Carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. May spread fire.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny

deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)  
PROTECT PEOPLE: Isolate area. May be a slipping hazard.

PROTECT THE ENVIRONMENT: Contain material to prevent contamination of soil, surface water or ground water.

CLEANUP: Contain spill if possible.

7. HANDLING AND STORAGE

HANDLING: Product on surfaces can cause slippery conditions. Product shipped/handled hot can cause thermal burns. Product handled hot may require additional ventilation or local exhaust.

STORAGE: Keep containers tightly closed when not in use. Store in stainless steel, polypropylene, polyethylene lined containers, Teflon, glass-lined container, aluminum, Plasite 3066 lined containers, Plasite 3070 lined containers, or 316 stainless steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses.

SKIN PROTECTION: No precautions other than clean body-covering clothing

should be needed. Use gloves with insulation for thermal protection, when needed.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator.

EXPOSURE GUIDELINE(S): None established.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Transparent viscous liquid

ODOR: Slight odor.

VAPOR PRESSURE: Low.

VAPOR DENSITY: > Air.

BOILING POINT: Decomposes at elevated temperatures.

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: >1.00 @ 25/25C, see Physical Properties Sheet

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See storage section.

CONDITIONS TO AVOID: Product can oxidize at elevated temperatures. Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with oxidizing materials. Avoid unintended contact with isocyanates. The reaction of polyols and isocyanates generates heat. Avoid contact with strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply, and the presence of other materials. Hazardous decomposition products may include and are not limited to: aldehydes, ketones, organic acids and polymer fragments.

HAZARDOUS POLYMERIZATION: Will not occur by itself.

## 11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: For this family of materials, the dermal LD50 in rabbits is

typically > 5000 mg/kg. The LD50 for skin absorption in rats  
is > 2000 mg/kg.

INGESTION: For this family of materials, the oral LD50 in rats is  
typically > 2000 mg/kg.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the  
address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No bioconcentration is expected because of the  
relatively high water solubility.

DEGRADATION & PERSISTENCE: Based largely or completely on information  
for similar material. Material is inherently biodegradable. Reaches more  
than 20% biodegradation in OECD test(s) for inherent biodegradability.

ECOTOXICITY: Based largely or completely on information for similar  
material. Material is practically non-toxic to aquatic organisms on an  
acute basis (LC50/EC50 greater than 100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY  
BODY OF WATER. All disposal methods must be in compliance with all  
Federal, State/Provincial and local laws and regulations. Regulations  
may vary in different locations. Waste characterizations and  
compliance with applicable laws are the responsibility solely of the  
waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE  
MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING  
OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY  
TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN  
MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include  
sending to a licensed, permitted: recycler, reclaimer, incinerator  
or other thermal destructive device.

As a service to its customers, We can provide names of information  
resources to help identify waste management companies and other  
facilities which recycle, reprocess or manage chemicals or plastics,  
and that manage used drums.

## 14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

IMDG: Not dangerous goods

IATA: Not dangerous goods

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

## 15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

## 16. OTHER INFORMATION

The reaction of polyols and isocyanates generate heat. Contact of the reacting materials with skin or eyes can cause severe burns and may be difficult to remove from the affected areas. Immediately wash affected areas with plenty of water and seek medical assistance.