SAFETY DATA SHEET

Section 1: Identification

- **Product Name:** BioCoat SUP 250 (PART B)
- **Chemical Name/Synonyms:** Polyisocyanate
- **Restrictions on Use:** Do not use on humans or animals

Company
BioBond Adhesives
6025 W. 300 South, West Point, Indiana,
Emergency Phone Number: 765-201-0810

Section 2: Hazard(s) Identification

- **Classification of the substance or mixture**
  - **Classification (GHS):** This compound is considered hazardous by the 2012 OSHA Hazard Communication Standard. (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Organs - Respiratory system.	Category 1
Skin Sensitization:	Category 1

- **Hazard pictogram(s):** 
- **Signal word:** Danger
- **Hazard Statements**
  - Causes skin irritation
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled
  - May cause an allergic skin reaction

- **Precautionary Statements**
  - **Prevention**
    Avoid breathing vapors, mist, or spray.
    Wear respiratory protection.
    Wear protective gloves.
    Wash hands thoroughly after handling.
    Contaminated work clothing must not be allowed out of the workplace.
  - **Response**
    If inhaled: Remove person to fresh air and keep comfortable for breathing.
    If experiencing respiratory symptoms: Call a poison center or doctor.
    If on skin: Wash with plenty of water.
    If skin irritation or rash occurs: Get medical attention.
    Take off contaminated clothing and wash it before reuse.
  - **Disposal**
    Dispose of contents and container in accordance with local, regional, and national regulations.

Section 3: Composition/ Information on Ingredients

CAS No.	Hazardous Component	Concentration
822-06-0	hexamethylene diisocyanate	0.01 – 0.2%
Proprietary	Polyisocyanate	99-100%

Specific chemical identities and concentrations are withheld as trade secret.

Section 4: First-Aid Measures

Take precautions to ensure your own safety before attempting to help others. Wear respiratory protection and protective gloves if exposure to this product is expected. Avoid breathing vapors, mist, or spray. When seeking medical attention, show this safety data sheet to the doctor in attendance.

- **Description of First Aid Measures:**
  - **Inhalation:** Move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a poison center or doctor. If not breathing, give artificial respiration.
  - **Skin Contact:** Wash with plenty of water. If skin irritation or rash occurs, get medical attention. Take off contaminated clothing and wash it before reuse.
  - **Eye Contact:** Hold eyelids apart and flush with plenty of water for at least 15 minutes.
  - Ingestion: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Give 2-4 glasses of water or milk. Seek medical advice if symptoms develop.
- Most Important Symptoms and Effects (Acute and Delayed): Symptoms of lung irritation include breathing difficulties, wheezing, and asthma symptoms. Contact with skin may cause redness, itchiness, pain, swelling, allergic reaction, hives, and flushing of the skin. Direct contact with eyes may cause irritation, redness, stinging, and tearing. May cause gastrointestinal irritation if ingested. Symptoms may include burning in the mouth, throat, esophagus and stomach.
- **Note to Physician:** Treat supportively and symptomatically.

Section 5: Fire-Fighting Measures

- **Suitable extinguishing media**: Small fires: CO2, Dry chemical, Water spray Large fires: Water spray
- **Unsuitable Extinguishing Media:NOTE:** Heavy water stream/jet may spread fire
- **Specific Hazards**:Fire conditions can result in the formation of carbon monoxide, carbon dioxide, and hazardous gases or fumes.
- **Special Protective Equipment and Precautions for Firefighters:**As in any fire, wear full protective gear and a MSHA/NIOSH approved (or equivalent) positive pressure-demand self-contained breathing apparatus. Use standard firefighting procedures and use water spray to keep exposed containers cool.

Section 6: Accidental Release Measures

- **Personal precautionsPersonal Precautions, Protective Equipment, and Emergency Procedures:** Keep unnecessary personnel away and upwind of spill/leak. Wear respiratory protection, protective gloves, protective

clothing, and safety glasses with side shields or safety goggles. Avoid breathing vapors, mist, or spray. Wash hands before eating, drinking, and/or smoking.

- **Environmental Precautions:**Prevent from entering into drains, soil, ditches, groundwater, and surface waters.
- **Methods and Materials for Containment and Cleaning Up:**Ventilate area of leak or spill and remove any sources of ignition. For small amounts, absorb with a liquid binding material such as diatomaceous earth and dispose of it in accordance with local, state, and federal regulations. Clean affected area with water and detergent. For large amounts, take up mechanically and pump up into suitable containers. Clean area with water and detergent. Dispose of cleaning containers of collected material in accordance with local, state, and federal regulations.

Section 7: Handling and Storage

- Precautions for Safe Handling: Use with adequate ventilation. Wear respiratory protection, protective gloves, and protective clothing. Safety glasses with side shields or safety goggles are recommended. Wash hands after handling material and before eating, drinking, and/or smoking.
- **Conditions for Safe Storage:** Keep container tightly closed in a dry, cool and well-ventilated place.

Section 8: Exposure Controls/Personal Protection

- Occupational Exposure Limits:

CAS No.	Component	Jurisdiction	Exposure Limit
822-06-0	Hexamethylene diisocyanate	ACGIH-TLV-TWA	0.034 mg/m3 (0.005 ppm)
		NIOSH REL-TWA	0.035 mg/m3 (0.005 ppm)
		NIOSH REL-C	0.140 mg/m³ (0.020 ppm) [10 minutes]

- **Appropriate Engineering Controls**
  Provide adequate ventilation so permissible exposure limits aren't exceeded. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.
- **Environmental Exposure Controls:** Do not allow product to enter drains, ditches, groundwater or surface waters.
- **Individual Protection Measures (Personal Protective Equipment):** Respiratory Equipment: NIOSH/MHSA approved organic vapor mask.
    - **Environmental Exposure Controls:** Do not allow product to enter drains, ditches, groundwater or surface waters.
    - **Protective Gloves:** Any light-tight rubber or vinyl gloves
    - **Protective Clothing:**Safety glasses with side shields or chemical safety goggles.

Section 9: Physical and Chemical Properties

- **Physical State:** Liquid
- **Color:** Colorless to light yellow
- **Odor:** None
- **Freezing Point:** No data available
- **Boiling Point:** No data available

- **Flammability:** No data available
- **Lower and Upper ExplosionLimit/Flammability Limit**: No data available
- **Flash Point:**252°C (Cleveland open-cup)
- **Decomposition Temperature:** No data available
- **pH:** 4.0-5.0
- **Kinematic Viscosity:** 3000 mPa s/25°C (representative value)
- **Solubility:** Soluble in Water
- **Partition Coefficient :** No data available
- **n-Octanol/Water Vapour Pressure:** No data available
- **Relative Density:** 1.17 g/cm3 at 20°C
- **Particle Characteristics:** No data available

Section 10: Stability and Reactivity

- **Reactivity:** No Data Available
- **Chemical stability**: Stable at room temperature in closed containers under normal storage and handling conditions
- **Possibility of hazardous reactions:**No hazardous decomposition products when stored and handled correctly.
- **Conditions to avoid:** Temperatures below 45°F or temperatures above 90°F, moisture, sources of heat.
- **Incompatible materials:** Exothermic reaction with amines and alcohols.Reacts slowly with water forming CO2 with risk of bursting closed containers, owing to increase of pressure.
- **Hazardous decomposition products:** May form carbon monoxide, oxides of nitrogen, isocyanates, and traces of hydrogen cyanide if heated to decomposition.

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin, eye, ingestion
- **Numerical Measures of Toxicity**

  Product

  Acute Oral Toxicity: LD50 >2,500 mg/kg (Rat)

  Acute Dermal Toxicity: LD50 >2,000 mg/kg (Rat)

  Acute Inhalation Toxicity: No data available

  Component: Hexamethylene diisocyanate

  Acute Oral Toxicity: LD50 = 747 mg/kg (Rat)

  Acute Dermal Toxicity: LD50 = 593 mg/kg (Rat)

  Acute Inhalation Toxicity: LC50 = 20 ppm (Rat, 4-hr)

  Corrosion/Irritation

  Product

  No data available

  Component: Hexamethylene diisocyanate

  Skin Corrosion/Irritation: Corrosive (OECD 404)

  Eye Damage/Irritation: Corrosive (OCDE 405)

  Sensitization

  Product

  No data available

  Component: Hexamethylene diisocyanate

Respiratory Sensitization: Positive (OECD 406)

Skin Sensitization:Positive (OECD 403)

Germ Cell Mutagenicity

No data available

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as:

- a probable, possible or confirmed human carcinogen by IARC
- a carcinogen or potential carcinogen by ACGIH
- a known or anticipated carcinogen by NTP
- a carcinogen or potential carcinogen by OSHA

Reproductive Toxicity

No data available

Specific Target Organ Toxicity

No data available

Aspiration Hazard

No data available

Delayed & Immediate Effects and Chronic Effects (short & long-term exposure)

Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms Related to Toxicological Characteristics

Hives, rash, itching, swelling, and flushing of the skin, lung irritation, breathing difficulties, and asthma symptoms.

Section 12: Ecological Information

- **Acute Aquatic Toxicity:** No Data Available
- **Mobility:** No Data Available
- **Biodegradation:** No Data Available
- **Bioaccumulation:** No Data Available

Section 13: Disposal Considerations

- **Product disposal**
  - **Recommendation:**
    Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Waste generators must consult 40 CFR Part 261, state, and local hazardous waste regulations to ensure complete and accurate classification. Hazardous wastes must be stored and disposed of in accordance with federal, state, and local regulations.
- **Packaging disposal**
  - **Recommendation:**
    Containers may contain residue and can be dangerous. Contact of product residue with water can generate CO2 gas. Containers should be disposed of in accordance with federal, state, and local regulations.

Section 14: Transport Information

- **Land Transport (U.S. DOT) :** Not regulated for transport

- **Air transport (ICAO and IATA):** Not regulated for transport

Section 15: Regulatory Information

- **US Federal Regulations**

Substance	Concentration in Material	EPCRA Section 3021	EPCRA Section 304 RQ2	CERCLA RQ3	CAA HAP4
Hexamethylene diisocyanate CAS No. 822-06-0	<0.2%	Not an EHS	100 lbs	100 lbs	yes

1 Emergency Planning and Community Right to Know Act Extremely Hazardous Substance
2 Emergency Planning and Community Right to Know Act Extremely Hazardous Substance Reportable Quantity
3 Comprehensive Environmental Response, Compensation, and Liability Act Reportable Quantity
4 Clean Air Act hazardous air pollutant

EPCRA Section 311/312 Hazard Categories

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

EPCRA Section 313

This material does not contain any section 313 chemicals at or above de minimis levels.

TSCA (Toxic Substances Control Act) Inventory Status

All components in this material are active on or exempt from the TSCA Inventory.

Section 16: Other Information

- **SDS date of preparation/update:** 04/09/2025
- **Version:** new product SDS