SAFETY DATA SHEET

1. Identification

Product Identifier: BDC 9520 Side A Isocyanate

Use: Isocyanate curing agent (Side A) for two-component coating systems. For Industrial/Professional use only.

Manufacturer: BDC Epoxy Systems, Inc.

12903 Sunshine Ave.

Santa Fe Springs, CA 90670

Phone Number: 562-944-6177

Emergency Phone: CHEMTREC 800-424-9300 or +1 703-527-3887

E-mail: info@bdcepoxy.com

2. Hazards Identification

GHS Classification:

Flammable Liquids – Category 3
Acute Toxicity (Inhalation) – Category 4
Skin Irritation – Category 2
Eye Irritation – Category 2A
Respiratory Sensitization – Category 1
Skin Sensitization – Category 1
Carcinogenicity – Category 2
Specific Target Organ Toxicity, Single Exposure – Category 3 (respiratory irritation; narcotic effects)
Hazardous to the Aquatic Environment – Acute Hazard Category 2

Label Elements: Danger



Hazard Statements

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H401	Toxic to aquatic life.

Precautionary Statements

P203	Obtain, read, and follow all safety instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing fumes, vapors, mists, or sprays.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P284	In case of inadequate ventilation, wear respiratory protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P318	IF exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.
P333+P317	If skin irritation or rash occurs: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P342+P316	If experiencing respiratory symptoms: Get emergency medical help immediately.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use foam, carbon dioxide, dry chemical, or water fog to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, and national regulations.

Supplemental Information: This is one part of a two-part system. Read and understand the hazard information on Side B before using. Contains isocyanates. Persons already sensitized to isocyanates should not use this product.

3. Composition / Information on Ingredients

Chemical Name	CAS #	%
Hexamethylene diisocyanate, oligomers	28182-81-2	60 – 80
p-Chlorobenzotrifluoride (PCBTF)	98-56-6	15 – 40
Trade Secret Ingredients	Proprietary	1 – 5

The specific chemical identity of the Trade Secret Ingredients and exact concentrations are withheld as a trade secret in accordance with 29 CFR 1910.1200(i). Contains less than 0.5% residual hexamethylene diisocyanate monomer (CAS 822-06-0). Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentration limits.

4. First-Aid Measures

Eye Contact: Immediately rinse with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or rash develops. Launder clothing before reuse; discard items that cannot be decontaminated (e.g., leather).

Inhalation: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If experiencing respiratory symptoms such as wheezing, coughing, or chest tightness, get emergency medical help immediately.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled; symptoms may be delayed. May cause an allergic skin reaction. Causes skin and serious eye irritation. May cause respiratory irritation, drowsiness, or dizziness.

Indication of Immediate Medical Attention/Special Treatment: Treat symptomatically. Respiratory sensitization may be delayed; observe exposed persons for respiratory symptoms. Once sensitized, a person may react to very low isocyanate exposures.

5. Fire-Fighting Measures

Extinguishing Media: Use foam, carbon dioxide, dry chemical, or water fog. Do not use a solid water stream.

Specific Hazards: Flammable liquid and vapor. Vapors may travel to a source of ignition and flash back. Closed containers may build pressure and rupture when heated or if contaminated with water. Combustion may produce carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, isocyanate vapors, hydrogen chloride, and hydrogen fluoride.

Special Protective Equipment & Precautions for Fire-Fighters: Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water spray.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Remove all ignition sources. Clear non-emergency personnel from the area. Ventilate the area. Wear appropriate protective clothing and respiratory protection to prevent eye and skin contact and inhalation of vapors.

Methods and Materials for Containment and Cleanup: Absorb with an inert, non-combustible absorbent material and place in open containers. Do not seal containers of collected material, as reaction with moisture generates carbon dioxide. Decontaminate the spill area with an isocyanate neutralizing solution. Avoid release to drains and waterways. Dispose of in accordance with applicable regulations.

7. Handling and Storage

Safe Handling: Obtain, read, and follow all safety instructions before use. Avoid breathing vapors or mists and avoid contact with eyes, skin, and clothing. Use only with adequate ventilation or properly positioned local exhaust. Keep away from heat, sparks, and open flames; ground and bond containers and use non-sparking tools. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling.

Safe Storage: Store indoors at 50–95°F (10–35°C) in original, tightly closed containers in a dry, well-ventilated area away from heat, ignition sources, and incompatible materials. Protect from moisture: reaction with water generates carbon dioxide, which can pressurize closed containers. Do not reseal containers suspected of moisture contamination. Store locked up.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits: Hexamethylene diisocyanate (residual monomer, CAS 822-06-0): ACGIH TLV 0.005 ppm TWA; NIOSH REL 0.005 ppm TWA, 0.020 ppm Ceiling; Cal/OSHA PEL 0.005 ppm TWA, 0.02 ppm Ceiling. No exposure limits established for other components.

Ventilation: Use with adequate general ventilation and properly positioned local exhaust ventilation to keep airborne concentrations below exposure limits. Use explosion-proof ventilation equipment.

Respiratory Protection: Isocyanates have poor warning properties. During spraying or when exposures may exceed limits, use a NIOSH-approved supplied-air respirator. For brush or roller application with adequate ventilation, a NIOSH-approved air-purifying respirator with organic vapor cartridges and particulate pre-filters may be used under an established cartridge change-out schedule. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Skin Protection: Wear chemical-resistant gloves, such as butyl rubber or nitrile rubber, and protective clothing to prevent skin contact.

Eye Protection: Wear chemical safety goggles; use a face shield where splashing is possible.

Other Protective Measures: An eye wash facility and safety shower should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Liquid, clear

Odor: Slight, aromatic

Odor Threshold: No data available

pH: Not applicable

Melting Point/Freezing Point: No data available

Boiling Point: No data available

Flash Point: 115°F (46°C), closed cup

Evap. Rate: No data available

Upper/Lower Flammability Limits: No data available

Vapor Pressure: No data available

Vapor Density: >1 (Air = 1)

Relative Density: Approx. 1.2

Solubility: Insoluble; reacts slowly with water

Partition Coefficient (n-octanol/Water): No data available

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: No data available

10. Stability and Reactivity

Reactivity: Reacts with water, alcohols, amines, acids, and bases. Reaction with water generates carbon dioxide gas.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Reaction with water or moisture can build pressure in closed containers. Uncontrolled exothermic reaction may occur with amines, alcohols, and strong bases.

Conditions to Avoid: Heat, sparks, open flames, and other ignition sources; moisture and humid air.

Incompatible Materials: Water, alcohols, amines, acids, strong bases, strong oxidizing agents, and metal compounds that catalyze isocyanate reactions.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen cyanide, isocyanate vapors, hydrogen chloride, and hydrogen fluoride.

11. Toxicological Information

Eye Contact: Causes serious eye irritation.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Inhalation: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation, drowsiness, or dizziness.

Ingestion: No data available.

Chronic Health Effects: Repeated exposure to isocyanates may cause respiratory sensitization; once sensitized, exposure to very low levels may cause asthma-like reactions. Suspected of causing cancer (contains PCBTF).

Acute Toxicity Values: Classified as harmful if inhaled (Acute Toxicity Category 4) based on supplier data for hexamethylene diisocyanate oligomers.

Respiratory Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Components are not classified as mutagens.

Carcinogenicity: Contains p-chlorobenzotrifluoride (PCBTF), classified by IARC as Group 2B (possibly carcinogenic to humans) and listed under California Proposition 65 as known to cause cancer.

Reproductive Toxicity: Components are not classified as reproductive toxicants.

Specific Target Organ Toxicity: Single exposure: may cause respiratory irritation, drowsiness, or dizziness.

12. Ecological Information

Ecotoxicity: Toxic to aquatic life. Avoid release to the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available. Isocyanates react with water to form insoluble polyureas.

13. Disposal Considerations

Do not discharge into drains or waterways. Dispose of contents and container in accordance with local, state, and federal regulations. Empty containers may retain flammable residue; do not cut, weld, or expose to heat.

14. Transport Information

DOT: UN1993, Flammable liquid, n.o.s. (p-chlorobenzotrifluoride), 3, III. Limited Quantity if shipped in inner packagings of 5 L (1.32 gal) or less.

IATA/IMDG: UN1993, Flammable liquid, n.o.s. (p-chlorobenzotrifluoride), 3, III

Emergency Shipping Information: Call CHEMTREC, 800-424-9300 or +1-703-527-3887.

15. Regulatory Information

OSHA HazCom 2012: This product is classified as hazardous per 29 CFR §1910.1200.

TSCA (US): All components are listed on the TSCA Chemical Substance Inventory.

CERCLA (Superfund): Hexamethylene diisocyanate (CAS 822-06-0) RQ 100 lb; present only as residual monomer. Some states have more stringent reporting requirements.

SARA Title III: Section 311/312 Hazard Categories: Flammable (gases, aerosols, liquids, or solids); Acute toxicity; Skin corrosion or irritation; Serious eye damage or eye irritation; Respiratory or skin sensitization; Carcinogenicity; Specific target organ toxicity (single exposure). Section 302: None. Section 313: Residual hexamethylene diisocyanate (diisocyanates category) is present below the de minimis concentration.

STATE REGULATIONS:

California Proposition 65: WARNING: This product can expose you to chemicals including p-chloro-α,α,α-trifluorotoluene (para-chlorobenzotrifluoride, PCBTF), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Training Advice: All personnel using/handling this product should be trained in proper chemical handling, isocyanate hazards, and the need for and use of engineering controls and protective equipment.

Recommended Uses and Restrictions: Intended for Industrial/Professional use only.

SDS Revision Notes: Revised: October 29, 2026

Disclaimer: The information contained herein is considered accurate; however, BDC Epoxy Systems, Inc. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.