

# SAFETY DATA SHEET

## CLEAR-GARD™ Part B

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CLEAR-GARD™ Part B

**Product Number:** CTX250-PARTB

**Product Use:** Activator for Part A

**Manufacturer/Supplier:** TEX-COTE LLC  
2422 East 15th Street,  
Panama City, FL 32405

**Phone Number:** 850-769-0347

**Emergency Phone:** 1-800-424-9300 (CHEMTREC)

**Date of Preparation:** May 16, 2022

### Section 2: HAZARDS IDENTIFICATION

**OSHA/HCS Status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**GHS Classification:**

Acute toxicity (Inhalation):	Category 4
Respiratory sensitization:	Category 1
Skin sensitization:	Category 1
Specific target organ toxicity - single exposure:	Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure (Inhalation):	Category 2 (Lungs)

**Signal Word:** DANGER!

**Hazard Statements:** MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION MAY CAUSE RESPIRATORY TRACT IRRITATION

**GHS Label Elements Symbol(s)**



**Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective clothing, gloves, eye, and face protection. Do not eat, drink or smoke when using this product. Wash hand thoroughly after handling. Take off contaminated clothing and wash it before reuse. Dispose of unused contents, container, and other contaminated wastes in accordance with local, state, federal, and provincial regulations.

**If in Eye:** Rinse cautiously with water for several minutes and remove contact lenses if present and easy to do. Continue rinsing and get medical attention if eye irritation persists.

**If on Skin:** Wash with plenty of soap and water.

**If Swallowed:** Rinse mouth and get medical attention if you feel unwell.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Potential Health Effects:** **Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May cause respiratory tract irritation.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause stomach distress, nausea or vomiting. Vapors may cause drowsiness and dizziness.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

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**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

**Potential Environmental Effects:** Does not cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

**Hazards Not Otherwise Classified (HNOC):** None known

**Unknown Acute Toxicity:** 5% of the mixture consists of ingredient(s) of unknown toxicity.

### Section 3: HAZARDS INFORMATION ON INGREDIENTS

**Substance/mixture:** Mixture

Ingredient	CAS #	Wt. %
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	60 - 100
Hydrophilic Aliphatic Polyisocyanate Based on Hexamethylene Diisocyanate	666723-27-9	15 - 25
Hexamethylene-1,6-Diisocyanate	822-06-0	0.1 - 1
N,N-dimethylcyclohexylamine	98-94-2	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

This product contains an amine neutralizing agent which is bound in the matrix of this product as a salt. This amine salt is considered essentially unreactive at room temperature. Generation of amine vapors is expected when this product is processed (heated) during the drying/hardening of the coating.

See section 8 for occupational exposure limit information

### Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Then remove contact lenses, if easily removable, and continue eye irrigation for not less than 15 minutes. If irritation persists, get medical attention.

**Skin Contact:** In case of contact, immediately remove contaminated clothing and shoes. Wash off skin with soap and water. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops and persists.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** DO NOT induce vomiting. If victim is conscious and alert, give 2 cupful of water. Wash mouth out with water and keep at rest. Never give anything by mouth to an unconscious person. Seek medical attention or call poison control immediately.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately. (Show the label or SDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

### Section 5: FIRE FIGHTING MEASURES

**Flammability:** Not flammable by WHMIS criteria.

**Means of Extinction:**

**Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** May include, and are not limited to: oxides of carbon.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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**Unusual Fire/Explosion Hazards:** Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO<sub>2</sub> formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volume of water applied from safe distance, since reaction between water and hot diisocyanate can be vigorous.

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow entering waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Pump any free liquid into an appropriate closed container (see Section 7: Handling and Storage). Clean up spill area with a decontamination solution made up of 2% liquid detergent, 90% water and 8% concentrated ammonia solution (% by weight). The solution should cover the area for at least 15 minutes. Collect washings in open-head metal containers. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO<sub>2</sub>) escape.

**Other Information:** Not available.

### Section 7: HANDLING AND STORAGE

**Handling:** Do not breathe vapors. Do not get on skin or in eyes. Do not ingest. Keep containers closed when not being used. Store, transfer and handle under a blanket of nitrogen. Before closing partially empty containers, blanket with dry nitrogen. Replace damaged gaskets. Avoid contact with water and excess humidity.

**Storage:** Store in tightly closed containers. Store in original container. Store in an area that is cool, dry, and well-ventilated, away from ignition sources,

**Storage Period:** 6 months @ 25°C (77°F) after receipt of material

**Storage Temperature:** 7°C (45°F) - 50°C (122°F)

**Recommended container material:** aluminum, steel,

**Container material to avoid:** polystyrene, copper, tin,

Certain state and local regulations may limit storage quantities, arrangements and locations. These regulations should be considered for storage and handling of this and any other flammable liquid.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

#### Exposure Limits:

Ingredient	OSHA PEL, ACGIH-TLV
Homopolymer of Hexamethylene Diisocyanate	TWA, 0.5 mg/m <sup>3</sup> , STEL 1.0 mg/m <sup>3</sup> (15 minutes)
Hexamethylene-1,6-Diisocyanate	ACGIH TLV 0.005 ppm, Ceiling Limit Value 0.02 ppm

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

#### Personal Protective Equipment:

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

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#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Light yellow liquid.
<b>Color:</b>	Light yellow.
<b>Odor:</b>	Slight odor.
<b>Odor Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>PH:</b>	8.0 - 9.5
<b>Viscosity:</b>	75 - 80 KU
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	Decomposition
<b>Flash Point:</b>	ca. 185°C (365°F)
<b>Evaporation Rate:</b>	Not available.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	HDI Polyisocyanate: 5.2X10 <sup>-9</sup> @ 20°C (68°F).
<b>Vapor Density:</b>	Not available.
<b>Specific Gravity:</b>	1.15 @ 20°C (68°F)
<b>Solubility in Water:</b>	Insoluble – reacts slowly with water to liberate CO <sub>2</sub> gas.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	ca. 445°C (833°F) (DIN 22719).
<b>Decomposition Temperature:</b>	ca. 181°C (358°F) (DIN 51794)
<b>VOC content:</b>	Coatings VOC: 0 grams/liter; Material VOC: 0 grams/liter Maximum 50 grams/liter When Blended Part A & Part B

#### Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions of Reactivity:** Contact with moisture, other materials that react with Isocyanates, or temperatures above 177°C (350°F).

**Condition to Avoid:** Heat, flames and sparks. Protect from freezing.

**Incompatible Materials:** Alkalis. Strong acids. Oxidizers, Water, Alcohols, Copper alloys.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

#### Section 11: TOXICOLOGY INFORMATION

##### EFFECTS OF ACUTE EXPOSURE

##### Component Analysis

Ingredient	LD <sub>50</sub> (Oral)	LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation)
Homopolymer of Hexamethylene Diisocyanate	≥5000 mg/kg, rat	>2000 mg/kg rat&rabbit	0.39 mg/L, rat 4hr
Hydrophilic Aliphatic Polyisocyanate Based on Hexamethylene Diisocyanate	≥5000 mg/kg, rat	Not Available	0.158 mg/L, rat 4hr
Hexamethylene-1,6-Diisocyanate	≥746 mg/kg, rat	>7000 mg/kg rat	0.124 mg/L, rat 4hr

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

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**Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not Hazardous

**Carcinogenicity:** Not Hazardous

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Homopolymer of Hexamethylene Diisocyanate	Not Listed
Hydrophilic Aliphatic Polyisocyanate Based on Hexamethylene	Not Listed
Hexamethylene-1,6-Diisocyanate	Not Listed

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous

**Reproductive Effects:** Not hazardous

**Developmental Effects:** Not hazardous

**Teratogenicity:** Not hazardous

**Embryotoxicity:** Not hazardous

**Respiratory Sensitization:** Not hazardous

**Skin Sensitization:** Not hazardous

**Toxicologically Synergistic Materials:** Not available.

### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Does not cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

### Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations. Do not empty into drains.

### Section 14: TRANSPORTATION INFORMATION

**US DOT, CANADA TDG Surface:** Not regulated

**TRANSPORT BY SEA IMDG / IMO:** Not regulated

**AIR TRANSPORT ICAO-TI / IATA-DGR:** Not regulated

### Section 15: REGULATORY INFORMATION

#### Federal Regulations

##### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### SARA 313 Components

No chemical components are subject to reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazard Categories:** Acute health hazard, Chronic health hazard

#### State Right To Know Information

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**MA, NJ, PA Right to Know Components:** Homopolymer of Hexamethylene Diisocyanate CAS-No. 28182-81-2, Hydrophilic Aliphatic Polyisocyanate Based on Hexamethylene Diisocyanate CAS-No. 666723-27-9, Hexamethylene-1,6-Diisocyanate CAS-No. 822-06-0, N,N-dimethylcyclohexylamine CAS-No. 98-94-2

**California Proposition 65:** This product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**United States TSCA Inventory (TSCA):** All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### Global Inventories

Ingredient	DSL / NDSL
Homopolymer of Hexamethylene Diisocyanate	DSL
Hydrophilic Aliphatic Polyisocyanate Based on Hexamethylene Diisocyanate	DSL
Hexamethylene-1,6-Diisocyanate	DSL

### HMIS - Hazardous Materials Identification System

Health - 2\*

Flammability - 1

Physical Hazard - 1

PPE – H

### NFPA - National Fire Protection Association:

Health - 2

Fire - 1

Reactivity - 1

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

### WHMIS Classification(s): WHMIS Classification(s):

Class D2B – Skin Sensitization

Class D2B – Eye or Skin Irritation

Class D2B – Chronic Toxic Effect

### WHMIS Hazard Symbols:



### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

**Disclaimer:** The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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**Prepared by:** TEX-COTE LLC

Phone: (850) 769-0347

www.texcote.com