

1. Identification

Product Identifier: **2004 CRU-P60 HARDENER PART-B ISOCYANATE for GLOSS & SATIN KITS**

Use: Curing Agent. For Industrial/Professional use only.. For Industrial/Professional use only.

Manufacturer: Granicrete International. Inc.
 4602 S 36th St
 Phoenix, AZ 85040

Phone Number: 602-438-9464

Emergency Phone: PERS 800-633-8253
 001-801-629-0667

2. Hazards Identification

HMIS Classification:
 Flammable Liquids – Category 1
 Skin Irritation – Category 2
 Eye Irritation – Category 2
 Respiratory Sensitization – Category 1
 Skin Sensitization – Category 1
 Specific Target Organ Toxicity – Single Exposure Category 3

Label Elements: Danger



Hazard Phrases:

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H225 Highly flammable liquid and vapor.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Phrases:

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
 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 thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated clothing should not be allowed out of the workplace.
 P280 Wear protective gloves, protective clothing, eye protection, and face protection.

P284 In case of inadequate ventilation, wear respiratory protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas 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.
 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.
 P362+P364 Take off contaminated clothing and wash before reuse.
 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 resin before using.

3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Hexamethylene diisocyanate oligomers, Isocyanurate	28182-81-2	80-95
Hexamethylene-di-isocyanate	822-06-0	<10
Other ingredients are not classified as health, physical or environmental hazards, or are present below cut-off/concentrations limits.		

4. First-Aid Measures

Eye Contact: Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin Contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before re-use. Discard items that cannot be decontaminated.

Inhalation: If inhaled, remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms develop or persists.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention if you feel unwell.

Most Important Symptoms/Effects: Causes skin, eye, and respiratory irritation.

Indication of Immediate Medical Attention/Special Treatment: Treat symptoms.

5. Fire-Fighting Measures

Extinguishing Media: Use foam, carbon dioxide, water fog or dry chemical.

Specific Hazards: Highly flammable liquid and vapor.
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.

6. Accidental Release Measures

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

Methods and Materials for Containment and Cleanup: Do not discharge material into waterways. Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment.

7. Handling and Storage

Safe Handling: Obtain, read, and follow instructions before use. Avoid contact with eyes, skin, and clothing. Do not breathe fumes, vapors, or mists. When using, do not eat, drink, or smoke. Use outdoors or with properly positioned local exhaust ventilation to prevent exposure. Wash thoroughly after handling. Keep container closed when not in use.

Safe Storage: Store indoors at temperatures between 40°F and 95°F. Store in original, unopened containers away from incompatible materials, open flames, and high temperatures.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: For Hexamethylene diisocyanate (HDI):

OSHA PEL	0.02 ppm (C)
ACGIH TLV	0.005 ppm TWA

Ventilation: Use with properly positioned local exhaust ventilation to prevent exposure and maintain air levels below the occupational exposure limits.

Respiratory Protection: If ventilation is not adequate, use a NIOSH-approved respirator with organic vapor cartridges or supplied air. Respirator selection and use should be based on contaminant type, form, and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

Skin Protection: Wear impervious gloves, such as butyl rubber or nitrile rubber.

Eye Protection: Wear chemical safety goggles or face shield.

Other Protective Measures: Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash facility and washing facility should be available in the work area. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and Chemical Properties

Appearance: Liquid, straw clear color

Odor: Amine

Odor Threshold: No data available

pH: No data available

Melting Point/Freezing Point: No data available

Boiling Point: 405F ... 207C

Flash Point: No data available

Evap. Rate: No data available

Flamm. Limits: No data available

Vapor Pressure: , 10.37 mmHg

Vapor Density: No data available

Relative Density: No data available

Solubility: Insoluble in water

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

Auto-Ignition Temp: No data available

Decomposition Temp: No data available

Viscosity: 450mPa.s @ 73F ... 23C

10. Stability and Reactivity

Reactivity: Not normally reactive.

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11. Toxicological Information

Eye Contact: Causes serious eye irritation.

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

Inhalation: May cause respiratory irritation.

Ingestion: No data available

Chronic Health Effects: May cause an allergic skin reaction.

Acute Toxicity Values: Not acutely hazardous.

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: Components are not classified as carcinogens.

Reproductive Toxicity: Components are not classified as reproductive toxins.

Specific Target Organ Toxicity: May cause respiratory irritation, drowsiness, or dizziness.

12. Ecological Information

Ecotoxicity: No data available. Avoid release to the environment.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. Disposal Considerations

Do not discharge into waterways. Dispose according to local, state, and federal regulations.

14. Transport Information

DOT: UN1866, RESIN SOLUTION, FLAMMABLE (CONTAINS ETHYL-3-ETHOXYPROPIONATE) 3, III. (LTD QTY if shipped in quantities of 5 liters (1.32 gallons)).

IATA/IMDG: UN1866, RESIN SOLUTION, FLAMMABLE (CONTAINS ETHYL-3-ETHOXYPROPIONATE) 3, III.

Emergency Shipping Information:

Call PERS 800-633-8253 or 001-801-629-0667

Regulatory Information

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: The RQ for Hexamethyl diisocyanate is 100lb. Some states have more stringent reporting requirements.

SARA TITLE III Section 311/312: Acute/Chronic Health Hazard

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer and/or reproductive harm. www.P65Warnings.ca.gov

15. Other Information

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

Recommended Uses and Restrictions: This product is intended for industrial use only.

SDS Revision Notes: GHS Format: October 26, 2021

Disclaimer: The information contained herein is considered accurate; however, Granicrete International, 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.