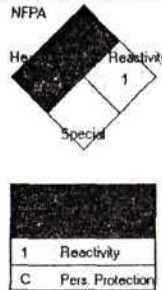


MSDS - Material Safety Data Sheet**Product Name:** Clear Casting Resin, Prepolymer

MSDS No.: 05-903

I. Basic Information:

Manufacturer: Synair Corporation
Address: 1003 Amnicola Highway, P.O. Box 5269
City, ST Zip: Chattanooga, TN 37406

Phone Number: 423-698-8801**Last Update:** 1/22/99**Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture**Transportation Phone Emergency:** Chem-Trec 1-800-424-9300**II. Ingredients:**

CAS No.	Chemical Name	% Range	EHS	NTP	IARC	SARA SUB Z 313	OSHA PEL	ACGIH TLV	Other Limits
5124301	Dicyclohexylmethane-4,4'-diisocyanate	60-90				X	NE	0.005 ppm	NE
0	Isocyanate Terminated Resin	10-20					NE	NE	NE

III. Hazardous Identification:

Hazard Category:
 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:**Warning:**

Clear, fluid liquid.

Inhalation of vapors may cause respiratory tract irritation. Contact with skin and eyes may cause irritation.

Repeated or prolonged inhalation of vapors above the TLV can cause immediate or delayed respiratory sensitization and asthma-like conditions in susceptible individuals.

First Aid Measures:**Route(s) of Entry:**

Inhalation, Ingestion, Skin and Eye contact.

Health Hazards (Acute and Chronic):**Acute (Short-Term)**

Contact may cause slight irritation of the skin and eyes (tearing). Inhalation of vapors may cause irritation of the mucous membranes in the respiratory tract, running nose and sore throat.

Chronic (Delayed)

Prolonged or repeated skin contact can cause reddening, swelling or skin sensitization in susceptible individuals. Repeated or prolonged inhalation of vapors above the TLV can cause immediate or delayed respiratory sensitization and asthma-like conditions.

Signs and Symptoms:

Skin, eye and respiratory tract irritation.

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Medical Conditions Generally Aggravated by Exposure:

Exposure well above the established TLV may lead to bronchitis, bronchial spasms and pulmonary edema (fluid in the lungs). These effects are usually reversible.

Emergency and First Aid Procedures:**SKIN CONTACT:** Remove contaminated clothing and wash affected area with isopropyl alcohol followed by soap and water. Wash contaminated clothing thoroughly before reuse.**EYE CONTACT:** Flush eyes with water for at least 15 minutes and contact a physician.**INGESTION:** Do NOT induce vomiting. Give 2 cups of milk or water and contact a physician. Do NOT give anything by mouth to an unconscious person.**INHALATION:** Remove person to fresh air. If person is not breathing give mouth-to-mouth resuscitation and contact a physician.**Other Health Warnings:**

None known.

Fire Fighting Measures:**Flash Point:** >395°F **Lower Explosive Limit:** NE **Upper Explosive Limit:** NE**Fire Extinguishing Media:** Foam, carbon dioxide or dry chemical extinguishers. If water is used, it should be used in very large quantities.**Special Fire Fighting Procedures:**

Firefighters should wear a full face positive pressure self-contained breathing apparatus and protective clothing. Use cold water to cool fire exposed containers.

Unusual Fire and Explosion:

Contamination of isocyanates with water releases carbon dioxide which may result in a dangerous amount of pressure build-up in closed containers. Do NOT reseal contaminated containers.

Accidental Release Measures:**Steps to be Taken in Case Material is Released or Spilled:**

Remove all sources of ignition and ventilate area. Cover liquid with an absorbent material (sawdust, vermiculite or wet sand). After the material is absorbed scoop up and place in open containers. Treat material with the prepared decontamination solution and leave the container open in a well ventilated area for 48 hours. Spill area should also be decontaminated with the following decontamination solution: 90% water, 2% detergent and 8% concentrated ammonia or sodium carbonate.

Handling and Storage:**Precautions to be Taken:**

Store in tightly closed containers in a cool, dry place protected from heat and moisture contamination. Do not reseal if water contamination is suspected.

Other Precautions:

Avoid skin and eye contact. Avoid breathing vapors.

Exposure Controls/Personal Protection:**Ventilation Requirements:**

Local Exhaust: Provide mechanical (general) and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Personal Protective Equipment:

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RESPIRATORY PROTECTION: None needed at normal temperatures. Use a self-contained breathing apparatus under high concentrations and emergency conditions.

PROTECTIVE GLOVES: Impervious rubber gloves.

EYE PROTECTION: Wear safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: An apron or suitable clothing to prevent skin contact.

X Physical and Chemical Properties

Boiling Point: NA **Melting Point:** NA **Evaporation Rate:** <1

Vapor Pressure (mm Hg.): 0.001 **Vapor Density (AIR = 1):** NE

Solubility in Water: Reacts slowly to liberate CO₂ gas.

Appearance and Odor: Clear, fluid liquid

Other Information: VOLATILITY @75°F: Very low

PERCENT VOLATILE BY VOLUME(%): Negligible

SPECIFIC GRAVITY: 1.06

XI Stability and Reactivity**Stability:**

Stable, except at high temperatures (200°F).

Incompatibility (Materials to Avoid):

Strong oxidizers, concentrated hydrogen peroxide, water, bases, alcohols, amines, metal compounds and surface active materials.

Decomposition/By Products:

High temperatures and burning conditions may release isocyanate vapors, carbon dioxide, carbon monoxide, nitrogen oxides, HCN and tetrahydrofuran.

Hazardous Polymerization:

May occur. Avoid high temperatures and contact with water.

XII Toxicological Information

None Available

XIII Ecological Information

None Available

XIV Disposal Considerations

Neutralize waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method. Decontaminate containers prior to disposal.

XV Transport Information

Plastic Liquid Resin Material

Item 1562-0

DOT Shipping Class 60

Non-Hazardous

MSDS - Material Safety Data Sheet**Product Name: Clear Casting Resin, Prepolymer**

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XVI Regulatory Information

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Dicyclohexylmethane-4,4'-diisocyanate	5124-30-1	90%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A reactive hazard

XVII Other Information

In this document the following abbreviations were used:

NA: Not Applicable
NE: Not Established