

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

#### SUPPLIER

GC AMERICA INC.  
3737 W. 127<sup>th</sup> Street  
Alsip, Illinois 60803  
Telephone: 708-597-0900  
Hours: Mon - Fri 8:00 a.m. – 5:00 p.m. CST  
Transportation Emergency Telephone 800-424-9300

**COMMON NAME:** NATURE-CRYL HI-20ET LIQUID

**CHEMICAL NAME:** N.A.

**PRODUCT USE:** Preparation of denture base - Liquid Component

*The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.*

### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Methyl Methacrylate	80-62-6	TWA=100ppm (ACGIH)	LD50=5.5 mg/kg (oral rat) LC50=3750 ppm/4hr	60-100
Ethyl-2-cyano- 3,3,diphenylacrylate	5232-99-5	TWA=10mg/m <sup>3</sup> (BASF)	N.E.	1-5
Ethylene Glycol Dimethacrylate	97-90-5	N.E.	N.E.	1-5

### SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

**BOILING POINT:** 99°C      **SPECIFIC GRAVITY (H2O = 1):** 0.939  
**VAPOR PRESSURE:** 50 @ 30°C      **MELTING POINT:** N.E.  
**VAPOR DENSITY:** 3.5      **EVAPORATION RATE:** N.E.  
**SOLUBILITY IN WATER:** Slight.      **ODOR THRESHOLD:** < 1 ppm as Methyl Methacrylate  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.  
**APPEARANCE AND ODOR:** Colorless volatile liquid with sweet sharp odor

### SECTION 4 - FIRE AND EXPLOSION DATA

**FLASH POINT:** 11°C (ASTM D56-70) (Closed Cup)    **FLAMMABLE LIMITS:** N.E.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide, dry chemical, water fog

**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective equipment, including self contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** When heated above the flashpoint, emits vapors, which when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point. Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Dioxide, Carbon Monoxide, Smoke

### SECTION 5 - REACTIVITY DATA

**STABILITY:**      **Stable**      **Unstable**  
**POLYMERIZATION:**      **Will Not Occur**      **Will Occur**

**CONDITIONS TO AVOID:** Heat and ignition sources

**INCOMPATIBILITY (Materials To Avoid):** Reducing and oxidizing agents. Material has strong solvent properties.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER	X							

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute and Chronic):

**INHALATION:** May cause nose and throat irritation. May cause nervous system depression. Reports have associated repeated and prolonged overexposure to brain damage and nervous system damage.

**INGESTION:** May cause abnormal liver and kidney function

**EYES:** May cause irritation or burning

**SKIN:** May cause irritation or burning of skin, and mucous membranes. Repeated exposure may cause skin burns and allergic reactions.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Inhalation overexposure: headache, dizziness, nausea, staggering gait, confusion, unconsciousness.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N.E.

**EMERGENCY FIRST AID PROCEDURES:**

**INGESTION:** If ingested, do not induce vomiting. Give one or two glasses of water and seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**\*EYES:** Immediately flush eyes with water. Seek medical attention.

**SKIN:** Wash with soap and water.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

**IN CASE OF RELEASE OR SPILL:** Eliminate source of ignition. Wear skin, eye, respiratory protection. Contain spill and keep out of sewers. Use absorbent to soak up liquid. Use non-sparking equipment and shovel into waste container.

**WASTE DISPOSAL METHOD:** Material is a hazardous waste, No. U162. Dispose of waste in facility permitted. for hazardous waste in accordance with local, state and federal regulations.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Keep away from heat, sparks, flame, direct sunlight and elevated temperatures.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Reduce exposure to vapor in accordance with safe hygiene practice. If exposure limits are exceeded, use an MSHA-NIOSH approved respirator for organic vapors.

**VENTILATION:** Local Exhaust: Yes Mechanical: N.A. Special: N.A. Other: N.A.

**PROTECTIVE GLOVES:** Use disposable vinyl gloves

**EYE PROTECTION:** Chemical eye goggles and full face protection if necessary

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash station

**WORK/HYGIENIC PRACTICE:** Follow safe hygiene practices

**SECTION 9- PREPARATION INFORMATION**

*This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR1910,1200 and W.H.M.I.S. CPR*

**PREPARED BY:** T. Joritz **DATE:** 09 June 2005  
Director Regulatory Affairs

N.A. = NOT APPLICABLE  
N.E. = NOT ESTABLISHED

*The information herein is given in good faith but no warranty expressed or implied is made.*

**FIRE - 4                      TOXICITY - 2                      NFPA REACTIVITY - 3                      SPECIAL- P**