

MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR  
GC AMERICA INC.  
3737 West 127th St.  
Alsip, Illinois, 60803  
Telephone: 708-597-0900  
Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.  
Transportation Emergency Telephone No. 800-424-9300  
COMMON NAME: G-BOND  
CHEMICAL NAME: N.A.  
PRODUCT USE: Light-cur bonding agent.

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Acetone	67-64-1	TWA=750ppm (OSHA, ACGIH) STEL=1000ppm (OSHA, ACGIH)	N.E.	40%
Distilled water	7732-18-5	N.E.	N.E.	20%
4-Methacryloxyethyltrimellitate anhydride	70293-55-9	N.E.	N.E.	15%
Urethane dimethacrylate	72869-86-4	N.E.	N.E.	10-20%
Triethyleneglycol dimethacrylate	109-16-0	N.E.	N.E.	10%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	55°C	SPECIFIC GRAVITY (H2O=1):	N.E.
VAPOR PRESSURE:	N.E.	MELTING POINT:	N.E.
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER:	Miscible	ODOR THRESHOLD:	N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION:	N.E.	APPEARANCE AND COLOR:	light y ellow liquid; slight ester-like odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: -10°C  
FLAMMABLE LIMITS: LEL 2.5, UEL 13  
EXTINGUISHING MEDIA: Chemical foam, carbon dioxide and dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus in case of fire.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Product is not explosive; however, formation of explosive air/vapor mixtures are possible.  
HAZARDOUS COMBUSTION PRODUCTS: Formation of toxic gases is possible in case of fire.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE:  
POLYMERIZATION: WILL NOT OCCUR: X WILL OCCUR:  
CONDITIONS TO AVOID: Avoid high heat and humidity.  
INCOMPATIBILITY (Materials to Avoid): None.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No dangerous decomposition products 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						

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G-BOND

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#### SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued

ROUTES OF ENTRY:                      INHALATION                      X                      SKIN                      X                      INGESTION                      X

HEALTH HAZARD (Acute and Chronic): Irritant to skin, mucous membranes, eyes, and respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

Conditions Generally Aggravated By Exposure: N.E.

#### EMERGENCY FIRST AID PROCEDURES:

**INHALATION:** Supply fresh air. Seek medical attention if irritation develops.

**EYE CONTACT:** Flush eyes with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.

**SKIN CONTACT:** Immediately wash with soap and water and rinse thoroughly. Seek medical attention if irritation develops.

**INGESTION:** If irritation develops, seek medical attention.

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

IN CASE OF RELEASE OR SPILL: Absorb with inert material and place in a chemical waste container.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal guidelines.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in cool, dry conditions in well sealed containers.

#### SECTION 8 - CONTROL MEASURES

**RESPIRATORY PROTECTION:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

VENTILATION:                      LOCAL EXHAUST: X                      MECHANICAL:                      SPECIAL:                      OTHER:

PROTECTIVE GLOVES: Recommended.

EYE PROTECTION: Tightly sealed goggles recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N.A.

**WORK/HYGIENIC PRACTICE:** Observe good hygienic work practices.

#### SECTION 9- PREPARATION INFORMATION

*This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR.*

PREPARED BY: T. Joritz  
Director, Regulatory Affairs

Date: 20 July 2004

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

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

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**NFPA**

<b>FIRE</b>	<b>4</b>	<b>TOXICITY</b>	<b>2</b>	<b>REACTIVITY</b>	<b>1</b>	<b>SPECIAL</b>	<b>-</b>
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