

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION**MANUFACTURER**

GC AMERICA INC.
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COMMON NAME: FUJI ORTHO - LIQUID**CHEMICAL NAME:** N.A.**PRODUCT USE:** Self-cured glass ionomer for bonding of orthodontic appliances. (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	%
Polyacrylic acid	Not listed	TWA=10ppm (ACGIH)	LD50 = 2500mg/kg (oral rat) LC50 = N.E.	20-25
2-Hydroxyethyl methacrylate	Not listed	N.E.	LD50=5888mg/kg (oral rat) LC50=N.E.	35-40
2,2,4, Trimethyl hexamethylene dicarbonate	Not listed	N.E.	N.E.	5-10
Triethylene glycol dimethacrylate	Not listed	N.E.	N.E.	5-10
Proprietary Ingredient		TLV=10mg/m ³ PEL=15mg/m ³	N.E.	5-15

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 101°C
VAPOR PRESSURE: N.E.
VAPOR DENSITY: N.E.
SOLUBILITY IN WATER: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.
APPEARANCE AND ODOR: Colorless, slightly viscous and odorless liquid

SPECIFIC GRAVITY (H₂O = 1): 1.18
MELTING POINT: 13°C
EVAPORATION RATE: N.E.
ODOR THRESHOLD: N.E.

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT:** N.E.**FLAMMABLE LIMITS:** N.A.**EXTINGUISHING MEDIA:** Alcohol foam, dry chemical**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective clothing and self-contained breathing apparatus.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N.E.**HAZARDOUS COMBUSTION PRODUCTS:** Emits acrid smoke when heated beyond boiling point.**SECTION 5 - REACTIVITY DATA**

STABILITY: Stable Unstable
POLYMERIZATION: Will Not Occur Will Occur

CONDITIONS TO AVOID: High heat; oxidizers**INCOMPATIBILITY (Materials to Avoid):** Alkali will inactivate product**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.

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):** Mildly toxic by all routes. Acidic solution (pH=1.90), care should be taken to avoid contact with skin or eyes.**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** N.E.**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N.E.**EMERGENCY FIRST AID PROCEDURES:****INGESTION:** Do not induce vomiting - give large volumes of water. Seek medical attention.**SKIN:** Wash with soap and water. If irritation develops seek medical attention.**EYES:** Flush with water for 15 minutes. If irritation develops seek medical attention.**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE****IN CASE OF RELEASE OR SPILL:** Neutralize with diluted hydroxide.**WASTE DISPOSAL METHOD:** Dilute with water and flush into drain with large volumes of water.**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store in a cool dry place in tightly closed container.**SECTION 8 - CONTROL MEASURES****RESPIRATORY PROTECTION:** None required**VENTILATION:** Local Exhaust: N.A. Mechanical: N.A. Special: N.E. Other: N.A.**PROTECTIVE GLOVES:** Latex gloves are recommended**EYE PROTECTION:** Goggles or full face shield**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Do not spill on clothing. Eyewash station**WORK/HYGIENIC PRACTICE:** N.E.**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***DATE:** 09 January 2006**REVIEWED:** 20 January 2009.....
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 - 0****TOXICITY - 2****NFPA****REACTIVITY - 0****SPECIAL - ACID**