

**FUJI ORTHO LC - LIQUID**  
**MATERIAL SAFETY DATA SHEET****SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****DISTRIBUTOR**

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**COMMON NAME:** FUJI ORTHO LC - Liquid  
FUJI ORTHO LC CAPSULE - Liquid

**CHEMICAL NAME:** N.A.

**PRODUCT USE:** Light-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.	20-22
2-Hydroxyethyl methacrylate	Not listed	N.E.	LD50=5888mg/kg (oral rat) LC50=N.E.	35-40
Proprietary Ingredient		TLV=10mg/m <sup>3</sup> PEL=15mg/m <sup>3</sup>	N.E.	5-15
2,2,4, Trimethyl hexamethylene dicarbonate	Not listed	N.E.	N.E.	5-7
Triethylene glycol dimethacrylate	Not listed	N.E.	N.E.	4-6

**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 (H<sub>2</sub>O = 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

**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

**REVISED:** 23 September 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 - 1

TOXICITY - 1

NFPA

REACTIVITY - 0

SPECIAL - ACID