

**FUJI ORTHO - POWDER  
MATERIAL SAFETY DATA SHEET**

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

**DISTRIBUTOR**

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**COMMON NAME:** FUJI ORTHO - POWDER

**CHEMICAL NAME:** N.A.

**PRODUCT USE:** Self-cured glass ionomer for bonding of orthodontic appliances.

*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	%
Alumino-silicate glass	Not listed	TLV=10mg/m <sup>3</sup> PEL=15mg/m <sup>3</sup> (ACGIH)	N.E.	90-100

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> N.E.	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b> 2.56
<b>VAPOR PRESSURE:</b> N.E.	<b>MELTING POINT:</b> >1,350°C
<b>VAPOR DENSITY:</b> N.E.	<b>EVAPORATION RATE:</b> N.E.
<b>SOLUBILITY IN WATER:</b> Insoluble	<b>ODOR THRESHOLD:</b> N.E.
<b>COEFFICIENT OF OIL/WATER DISTRIBUTION:</b> N.E.	<b>APPEARANCE AND ODOR:</b> Very fine white powder

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** Not flammable **FLAMMABLE LIMITS:** N.A.

**EXTINGUISHING MEDIA:** Material is not combustible. Use extinguishing media appropriate to the surrounding area.

**SPECIAL FIRE FIGHTING PROCEDURES:** N.A.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N.E.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide

**SECTION 5 - REACTIVITY DATA**

**STABILITY:** Stable  Unstable

**POLYMERIZATION:** Will Not Occur  Will Occur

**CONDITIONS TO AVOID:** Avoid high temperatures and humidity

**INCOMPATIBILITY (Materials to Avoid):** Contains silica glass. Avoid contact with hydrofluoric acid. Contact with acids liberates hydrogen fluoride gas which is toxic and corrosive.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** At elevated temperatures various fluoride compounds will be liberated, including toxic hydrogen fluoride and sodium potassium fluoride.

**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					Group 2A		
SENSITIZER		X						

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued**ROUTES OF ENTRY: Inhalation  Skin  Ingestion 

**HEALTH HAZARD (Acute and Chronic):** Contains silica glass, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Dusts of silica glass is also a known cause of silicosis, a non-cancerous lung disease.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Irritation and soreness in throat and nose.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** May aggravate pre-existing upper respiratory and lung disease.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.

**INGESTION:** Ingestion may require medical assistance.

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

**EYES:** Flush with large quantities of water. If irritation develops or persists seek medical attention.

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

**IN CASE OF RELEASE OR SPILL:** Avoid generating dust while sweeping. If an excessive amount of dust is generated use a filter equipped vacuum and MSHA/NIOSH approved mask.

**WASTE DISPOSAL METHOD:** In accordance with local, state and federal regulations.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store at normal room temperatures and humidity.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Minimize exposure to dust in accordance with good hygiene practice. If needed, use MSHA/NIOSH approved respirator for dusts, mists and fumes.

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

**PROTECTIVE GLOVES:** Disposable vinyl gloves recommended.

**EYE PROTECTION:** Safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eyewash station

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

**DATE:** 09 January 2006

**REVIEWED:** 20 January 2009

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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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**FIRE – 0****TOXICITY – 1****NFPA****REACTIVITY – 0****SPECIAL –**