

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/01/2008  
 MSDS No: LS1003  
 Date Revised: 12/04/2008  
 Revision No: 1

## Universal All-in-One Solder Flux

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Universal All-in-One Solder Flux  
**PRODUCT DESCRIPTION:** Silver solder and flux in straight lengths  
**PRODUCT CODE:** 2000

#### MANUFACTURER

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa FL 33647  
**Product Stewardship:** 1-800-999-3161

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS
Silver	7440-22-4
Copper	7440-50-8
Tin	7440-31-5
Zinc	7440-66-6
Potassium Fluoride	7789-23-3
Potassium borate	1332-77-0

### 3. HAZARDS IDENTIFICATION

**COMMENTS:** Avoid inhalation of dust, smokes or fumes

### 4. FIRST AID MEASURES

**EYES:** Immediately wash with fresh water. If necessary , consult with a Doctor.

**SKIN:** Wash with fresh water.

**INGESTION:** Consult with a physician

**INHALATION:** Remove to fresh air.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS:** Not flammable

**FIRE FIGHTING PROCEDURES:** Not Applicable

**COMMENTS:** Not considered a fire hazard

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### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Accidental release measures : of the flux  
Environmental Precautions : abundantly wash with water (dilution effect).  
Method for cleaning : water

### 7. HANDLING AND STORAGE

**STORAGE:** Avoid humidity and contact with plastic. Store in dry air in original packing

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Goggles

**SKIN:** Not necessary in normal use

**RESPIRATORY:** Do not inhale dust, smoke or fumes

**PROTECTIVE CLOTHING:** Not necessary in normal use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** None

**APPEARANCE:** Round pellets: 3 mm diameter - oval pellets: 3x6 mm

**COLOR:** White brilliant

**MELTING POINT:** Approximately 650C

**SOLUBILITY IN WATER:** Insoluble, Flux alone (inside the Pellets) is water soluble

**DENSITY:** 9.51

### 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Humidity

**INCOMPATIBLE MATERIALS:** Plastics when stored

### 11. TOXICOLOGICAL INFORMATION

**ACUTE**

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Chemical Name	ORAL LD <sub>50</sub> (rat)	INHALATION LC <sub>50</sub> (rat)
Silver	> 5 gm/kg (oral/guinea pig)	No data available
Copper	No data available	No data available
Zinc	No data available	No data available
Potassium Fluoride	245 mg/kg (oral/Rat)	No data available

**COMMENTS:** None Reported

### 12. ECOLOGICAL INFORMATION

**COMMENTS:** Information relevant to the environment is provided, in case of need, in other sections of the data sheet.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose in accordance with local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

**COMMENTS:** None Reported

### 15. REGULATORY INFORMATION

**COMMENTS** None Reported

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** New MSDS Format

**APPROVED BY:** J. Hutchins     **TITLE:** QA/RA Director

**PREPARED BY:** T. Swan

**INFORMATION CONTACT:** 1-800-999-3161

**REVISION SUMMARY:** Revision #: 1. This MSDS replaces the December 01, 2008 MSDS.

**GENERAL STATEMENTS:** Recommended use : for soldering in the dental and/or industrial fields.

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