

# SAFETY DATA SHEET

Date Prepared : 12/01/2008  
 MSDS No : LS1003  
 Date Revised : 10/28/2015  
 Revision No : 3

## Universal All-in-One Solder Flux

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Universal All-in-One Solder Flux  
**PRODUCT DESCRIPTION:** 7155M9AB  
**PRODUCT CODE:** 2000  
**ACTIVE INGREDIENT(S):** Potassium Fluoride; Potassium borate

#### MANUFACTURER

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa, FL 33647  
**Emergency Phone:** 1-800-999-3161  
**E-Mail:** ljohnson@orthotechnology.com

### 2. HAZARDS IDENTIFICATION

#### GHS LABEL



Exclamation  
mark

#### HAZARD STATEMENTS

H315: Causes skin irritation.

#### POTENTIAL HEALTH EFFECTS

**SKIN:** Can produce irritation, particularly on abraded skin. Prolonged exposure can cause dermatitis.

**INHALATION:** Avoid inhalation of Dust and ingestion.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Potassium Fluoride	~ 0 - 20	7789-23-3
Silver	~ 0.8 - 19.2	7440-22-4
Copper	~ 15 - 76	7440-50-8
Zinc	~ 1.6 - 35.2	7440-66-6
Potassium borate	~ 0 - 20	1332-77-0
Nickel	~ 0.38 - 91.2	7440-02-0

### 4. FIRST AID MEASURES

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

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**SKIN:** Wash with fresh water.

**INGESTION:** Consult with a physician

**INHALATION:** Remove to fresh air.

### 5. FIRE FIGHTING MEASURES

**FIRE FIGHTING PROCEDURES:** Not Applicable

**COMMENTS:** Not considered a fire hazard

### 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

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Potassium Fluoride	TWA	[1]	2.5 [1]	[1]	2.5 [1]
Silver	TWA		0.01 mg/m <sup>3</sup>		0.1 mg/m <sup>3</sup> (metal)
Copper	TWA	[2]	0.1 -1 mg/m <sup>3</sup> (fume;dust and mists) [2]		0.2 -1 mg/m <sup>3</sup> (fume; dusts and mists)
Zinc	TWA	[3]	5 mg/m <sup>3</sup> [3]	[4]	5 mg/m <sup>3</sup> [4]
	STEL			[3]	10 mg/m <sup>3</sup> [3]
Nickel	TWA		1 mg/m <sup>3</sup>		1.5 mg/m <sup>3</sup> (metal)

#### Footnotes:

- As F
- OSHA PELs : 0.1 mg/m<sup>3</sup> TWA (fume); 1 mg/m<sup>3</sup> TWA (dusts and mists)
- as ZnO fume
- as ZnO Fume

### PERSONAL PROTECTIVE EQUIPMENT

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**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**FLAMMABLE LIMITS:** 0 to 0**Notes:** Not flammable**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

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

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**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

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

**PREPARED BY:** T. Swan     **Date Revised:** 10/28/2015

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

**REVISION SUMMARY:** This MSDS replaces the 10/28/2015 MSDS. Revised: **Section 2:** POTENTIAL HEALTH EFFECTS ( INHALATION ). **Section 3:** Wt.%.

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

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