

SAFETY DATA SHEET

Date Issued : 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

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

See Section 8 for Exposure Limits

4. FIRST AID MEASURES

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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

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

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

Footnotes:

- As F
- OSHA PELs : 0.1 mg/m³ TWA (fume); 1 mg/m³ TWA (dusts and mists)
- as ZnO fume
- as ZnO Fume

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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

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 ₅₀ (rat)	INHALATION LC ₅₀ (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.

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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

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

PREPARED BY: T. Swan

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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