

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 12/01/2008
 SDS No : LS1003
 Date Revised : 10/28/2015
 Revision No : 3

Universal All-in-One Solder Flux

SECTION 1 : Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Product code : 2000
Product name : Universal All-in-One Solder Flux
Product description : 7155M9AB
Active ingredient(s) : Potassium Fluoride; Potassium borate

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

Ortho Technology, Inc.
 17401 Commerce Park Boulevard
 Tampa, FL 33647

Emergency Phone : 1-800-999-3161
E-Mail : ljohnson@orthotechnology.com


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 1999/45/EC

2.2. Label elements

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram(s) : 
 Exclamation mark

Hazard statement(s) : H315: Causes skin irritation.

2.3. Other hazards

Additional information : Avoid inhalation of dust, smokes or fumes

SECTION 3: Composition / information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

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Chemical Name	CAS	EINECS No.	Wt.%
Potassium Fluoride	7789-23-3	232-151-5	~ 0 - 20
Silver	7440-22-4	231-131-3	~ 0.8 - 19.2
Copper	7440-50-8	231-159-6	~ 15 - 76
Zinc	7440-66-6	231-175-3	~ 1.6 - 35.2
Potassium borate	1332-77-0	215-575-5	~ 0 - 20
Nickel	7440-02-0	231-111-4	~ 0.38 - 91.2

SECTION 4: First aid measures

4.1. Description of first aid measures

- Following eyes** : Immediately wash with fresh water. If necessary , consult with a Doctor.
- Following skin** : Wash with fresh water.
- Following ingestion** : Consult with a physician
- Following inhalation** : Remove to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Fire fighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

- Fire fighting procedures** : Not Applicable
- Additional information** : Not considered a fire hazard

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

Eye/face protection : Goggles
Skin protection : Not necessary in normal use
Respiratory protection : Do not inhale dust, smoke or fumes
Protective clothing : Not necessary in normal use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Round pellets: 3 mm diameter - oval pellets: 3x6 mm
Colour : White brilliant
Odour : None
Melting temperature : Approximately 650C
Flammable limits : 0 to 0
Notes : Not flammable
Density : 9.51
Solubility in water : Insoluble, Flux alone (inside the Pellets) is water soluble

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid : Humidity

10.5. Incompatible materials

Incompatible materials : Plastics when stored

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute

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Chemical Name	Oral LD ₅₀	Inhalation LC ₅₀
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

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal method : Dispose in accordance with local, state, and federal regulations.

SECTION 14: Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Additional information : None Reported

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

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Additional information : None Reported

SECTION 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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