

COMPANY INFORMATION

COMPANY NAME: ORTHO SPECIALTIES
COMPANY ADDRESS: 3820 OHIO AVE - SUITE 15
 ST. CHARLES, IL 60174
COMPANY PHONE: 630-443-0225
COMPANY FAX: 630-443-0224
COMPANY WEB ADDRESS: www.orthospecialties.com

SOLDER LV FLUX	
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1. PREPARATION

1.1 Chemical Nature: Complex potassiumfluoborate

2. COMPOSITION

2.1 Substance: 2.2 Compound
X

2.3 Chemical Characterization:

Contains	C.A.S. Number	R phrases
Boric Acid	10043-35-3	R: 36/37/38
Potassium hydrogen fluoride	7789-29-9	R: 25/34
Potassium tetraborate tetrahydrate	12045-78-2	R: 36/37/38

3. HAZARDS IDENTIFICATION

May cause harm if ingested. May cause irritation upon skin and eyes contact. Vapours released when heated abovemelting point may irritate respiratory tracts.

4. FIRST-AID MEASURES

- 4.1 Skin Contact:
Wash with copious amounts of water and soap. Should the irritation persist, consult a skin specialist.
- 4.2 Eye Contact:
Open the palpebral fissure and rinse for 15 minutes with running water. Consult the eye specialist.
- 4.3 Inhalation:
Move affected person to fresh air.
- 4.4 Ingestion:
Affected person should drink plenty of water. If necessary, seek medical attention.

5. FIRE-FIGHTING MEASURES

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precaution:
Do not inhale vapours. Avoid contact with skin and eyes.
- 6.2 Environmental precautions:
Prevent contamination of soil, drains and surface waters.
- 6.3 Cleaning methods:
Seal into special containers and dispose accordingly to regulatory requirements.

7. HANDLING AND STORAGE

- 7.1 Handling: Avoid contact with skin. Do not eat, drink or smoke while working.
- 7.2 Storage: Keep away from food and drink. Store in cool, dry, place.
- 7.3 Storage Conditions: Provide for good ventilation.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Technical protective measures: No special safety measures required.
- 8.2 Exposure control limits:
8.2.1 Threshold limit value: 2.5 mg/m³ (fumes may contain fluorides).
- 8.3 Personal Protection:
8.3.1 Skin protection: Wear suitable gloves.
8.3.2 Eye Protection: Protective glasses.
8.3.3 Avoid inhalation and ingestion.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Form: powder, Color: white Odour: none
9.2 Change of state: Melting point/range: ca 600°C.
Boiling point: N/A
9.3 Flashpoint: N.A.
9.4 Ignition point: N.A.
9.5 Explosion limits: N.A.
9.6 Vapour pressure: N.A.
9.7 Density: 1.2g/cm³
9.8 Solubility in water 30g/l (20°C)
Organic solvent: not soluble.
9.9 pH value: (10 g/l H₂O, 20°C): 7.8
9.10 Viscosity: N.A.

10. REACTIVITY INFORMATION

- 10.1 Above melting point decomposes and releases traces of HF.
10.2 Conditions to avoid: Heat.
10.3 Materials to avoid: Upon contact and heating with concentrated sulphuric acid HF is released.
10.4 Hazardous decomposition products: HF may be released upon decomposition.

11. TOXICOLOGY

Toxic by inhalation and oral ingestion.
Eye and skin contact may cause irritation and sensitization.
During decomposition fluorides are released, which may be toxic by inhalation.

12. ECOLOGY

- 12.1 Acute toxicity in fish: Not determined.
12.2 Bacteria toxicity: Not determined.
12.3 Biodegradability: Not biodegradable.
12.4 Do not release this product into lakes, rivers or the sewage system.

13. DISPOSAL CONSIDERATION

- 13.1 Product: Dispose of in a special refuse tip according to local regulatory.
13.2 Packaging: Contaminated packaging material should be disposed of identical to the product itself. Uncontaminated packaging material should be reused, recycled or treated as household waste.

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14. TRANSPORT

14.1 Not dangerous according to transport regulations.

15. REGULATION

15.1 Follow local regulations.

16. FURTHER DETAILS

Issue n. 1

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.