



®AUS WELDING CONSUMABLES

Reg. Office: Factory 4
46 Holloway Drive
Bayswater, Vic. 3153
Australia

Telephone (03) 9761 1099
Fax: (03) 9761 1899
International Fax: +61 3 97611899
Email: arvo@ausweld.com.au
Website: www.ausweld.com.au

®AUSROD

**Manufacturers of: Non Ferrous Alloys in Rods, Flat, Rounds and Irregular Forms.
Also Flux Coating Facility and Wire Cutting Available.**

MATERIAL SAFETY DATA SHEET

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Date of Issue: 28th. July, 2003

STATEMENT OF HAZARDOUS NATURE

Classified as Hazardous according to the criteria of NOHSC

COMPANY DETAILS

Company: AUSWELD -Pakarinen & Co Pty Ltd. (ACN 005 298 797 AIN 26 605 123 391)
Address: 4/46 Holloway Drive
BAYSWATER, VICTORIA 3153
Telephone: (03) 9761 1099
Emergency Telephone No: Poisons Information Centre (24 hours) Australia 13 1126

IDENTIFICATION

Product Name: L.T. Silver Brazing Flux Paste
Other Names: L.T. Silver Brazing Flux
Manufacturers Product Code: 360A, 360B, 360C
UN Number: 2922
Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S.
(Contains: BIFLUORIDE)

Dangerous Goods Class and Subsidiary Risk:

8 and 6.1

Hazchem Code: ZX

Poisons Schedule Number: S6

Packing Group: III

Use: Brazing flux - for use with the lower temperature range of silver brazing alloys. For most base metals, i.e. carbon steel, copper, brass, stainless steels and dissimilar combinations. After brazing, flux should be removed with wire brush and hot water.

Physical Description/Properties

Appearance: White Paste
Melting Point: Approximately 485°C after removal of water
Vapour Pressure: Not available
Specific Gravity: 1.6
Flashpoint: Not available
Flammability Limits: Not available
Solubility in Water: Miscible
Other properties: Not available

Ingredients

Chemical Name:	CAS Number:	Proportion:
Potassium Bifluoride	7789-29-9	30-60%
Boric Acid	10043-35-3	30-60%
Potassium Hydroxide	1310-58-3	<10%
Water	7732-18-5	to 100%



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HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed:

Harmful if swallowed. Ingestion will irritate the gastric tract causing nausea and vomiting, abdominal pain and diarrhoea may occur. Highly irritating to eyes. Pain and inflammation, tearing, stinging, redness, blurred vision of eyes will occur.

Acute - Eye:

Acute - Skin:

Irritating to skin. Can be absorbed through the skin. May cause pain, redness and itching. Immediate stinging will occur on open cuts and abrasions. The skin and underlying tissue may be damaged.

Acute - Inhaled:

Irritating to the mucous membranes and upper respiratory tract. Symptoms of exposure may include burning sensation, coughing, wheezing, Laryngitis, shortness of breath, headache, nausea and vomiting.

Chronic:

Symptoms of fluoride overexposure may include, salivation, nausea, vomiting, abdominal pain, fever, laboured breathing. Nose bleeds and sinus problems may also occur. Fluoride ion can reduce serum calcium levels. Prolonged exposure can cause deposits of Fluorides in the bones and teeth - causing pain, disability and mottling of the teeth, a condition known as 'Fluorosis', (fluorine poisoning). Prolonged exposure to unprotected skin may cause defatting which may lead to dermatitis.

FIRST AID

Swallowed:

For advice, contact a Poisons Information Centre phone: Australia 13 1126, New Zealand 03 4747 000, or a doctor (at once). If swallowed, do NOT induce vomiting. Seek immediate medical assistance.

Eye:

If in eyes, act immediately, hold eyelids apart and flush the eye continuously with running water, for at least 15 minutes. Continue flushing until advised to stop by the Poisons Information Centre or a doctor. Seek immediate medical attention.

Skin:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Apply calcium gluconate gel to affected skin.

Inhaled:

If swallowed or inhaled, remove from contaminated area to fresh air. Loosen any tight clothing from the neck and waist. Keep patient warm and rested. Check for clear airway. Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area. Seek immediate medical assistance.

Advice to Doctor:

Treat symptomatically or phone a Poisons Information Centre.



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PRECAUTIONS FOR USE
Exposure Standards:

Potassium Bifluoride
Fluorides (As F)
Boric Acid

Threshold Limit Values TLV's/TWA
2.5mg/m³ TWA
dust not otherwise classified, as
inspirable dust 10mg/m³ TWA

Engineering Controls:

Ventilation
Use in well ventilated area only. Maintain concentration below recommended exposure limit. The welder should be trained to keep his/her head out of the fumes. Use with local exhaust ventilation.

Personal Protection:

Respiratory Protection
Use a fume respirator or air supplied respirator when brazing in a confined space or where local exhaust or ventilation does not keep exposure below the relevant exposure standards. Refer AS/NZS 1715 and AS/NZS 1716.

Eye Protection
Welding goggles and full face shield. Provide protective screens and flash goggles, if necessary, to shield others. Refer AS1336, AS1337 and AS1338. For most open welding/brazing operations, goggles, even with the appropriate filters, will not afford sufficient facial protection for welders (WITA - Technical Note 7). Protect yourself and others.

Clothing
Welding gloves, cotton overalls, buttoned, wrist and neck, and safety footwear. When handling large quantities plastic coveralls and nitrile or natural rubber gloves are recommended.

Hygiene
Develop good personal hygiene by always washing well after using fluxes/brazing alloys and before eating, drinking, smoking, or using the toilet. Safety shower and eye bath should be available.

Flammability:

Non Flammable.

L.T. Silver Brazing Flux



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SAFE HANDLING INFORMATION

Storage and Transport:

Keep containers closed at all times. Store in a cool, dry place. Store away from strong acids/oxidising materials. Protect containers from damage. Store away from food and feed stock. This material is a Class 8 corrosive substance according to the Australian code for the Transport of Dangerous Goods by Road and Rail. Class 8 Corrosives shall not be loaded in the same vehicle or packed in the same freight container with:

- Class 1 Explosives
- Class 4.3 Dangerous when wet substances
- Class 5.1 Oxidising agents
- Class 5.2 Organic peroxides
- Class 6 Toxic substances (where the toxic substances are cyanides and the corrosives are acids).
- Class 7 Radioactive substances.

Incompatible with food and food packaging and empties in any quantities.
Corrosive Liquid, Toxic, N.O.S.
(Contains: BIFLUORIDE)

Proper Shipping Name:

ERG Number:

BA1

IERG Number:

37

Packaging Method:

5,9,8

Spills and Disposal

Move unprotected personnel from immediate area. Wear full protective clothing and self contained breathing apparatus, if available, to minimise eye and skin exposure. Clean up spill by neutralizing with copious amount of garden lime (calcium hydroxide), then placing sand or dirt onto material then place into a suitable, labelled, container. Mop up residue and place in same container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or refer to State Waste Management Authority.

Fire/Explosion Hazard:

Hydrogen Fluoride fumes.

Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

Extinguishing:

Use extinguishing media appropriate to surrounding fire.

Hazardous Reaction:

Incompatibility: Strong acids, glass.

OTHER INFORMATION

Environ. Protection:

Contain.



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OTHER INFORMATION

Risk Statement: R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing gloves and eye protection.

Hazard Category: Harmful, Irritant.

CONTACT POINT

Contact: Mr. Arvo Pakarinen
Technical Manager
Tel: (03) 9761 1099

This MSDS information has been compiled, by AusWeld -Pakarinen & Co Pty Ltd., from standard reference materials for the exclusive purpose of providing Health and Safety Hazard information about its own products. Any advice, recommendation, or service provided by AusWeld - Pakarinen & Co Pty Ltd., in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. AusWeld - Pakarinen & Co Pty Ltd., does not represent that these hazard precautions or procedures are the only ones available. The user should properly assess the information in the specific context of the intended application. Care has been taken in providing this information. However, it is provided with a disclaimer for any liability or responsibility on the part of AusWeld - Pakarinen & Co Pty. Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by statute, common law, custom of the trade or otherwise, are to the extent that the law permits, expressly excluded.

EMERGENCY NUMBERS AND INFORMATION

IN AN EMERGENCY, CALL -

IN AUSTRALIA 000

IN NEW ZEALAND 111

-FOR EMERGENCY SERVICES (FIRE BRIGADE, AMBULANCE, POLICE)

IN CASE OF POISONING, CALL -

IN AUSTRALIA,

POISONS INFORMATION CENTRE 13 1126

IN NEW ZEALAND

NATIONAL POISONS CENTRE 03 474 7000