Safety Data Sheet

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Contact Details: **Weldtronic International P/L**
42-46 Micro Circuit, Dandenong South
Victoria, Australia 3175
Tel: 03 9702 9366 Website: www.weldtronic.com.au

IDENTIFICATION

PRODUCT NAME:	SBA 15 (SILVER BRAZING ALLOY) AWS A5.8 BCuP-5 / AS 1167.1: B4
PRODUCTS CODE:	L204
PRODUCT USE:	Silver Brazing Alloys are used for the joining of most ferrous and non-ferrous metals, except aluminium and magnesium. These filler metals are free of cadmium.

PHYSICAL DATA

APPEARANCE:	ROD
MELTING POINT:	SOLIDUS: 644 - 690 oC LIQUIDUS: 700 - 800 oC
DENSITY:	9.0 g/cm^3
SOLUBILITY IN WATER:	INSOLUBLE

OTHER PROPERTIES

STABILITY:	Stable
MATERIALS TO AVOID:	Acids and acetylene

CHEMICAL COMPOSITION

ELEMENT	**%**
Silver	15.00
Phosphorous	5.00
Copper	Balance

HEALTH HAZARD/FIRST AID INFORMATION

SWALLOWED: Unlikely route of exposure
Do not induce vomiting. Wash out mouth with water and give plenty of water to drink. If symptoms develop seek medical attention.

EYE: **Moderate local irritation may occur due to the zinc oxide component.**

If contact with the eye(s) occurs, wash with copious amount of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.

SKIN: **Zinc oxide is moderately irritating to the skin.**
Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms persist seek medical attention.

INHALED: Exposure to zinc and copper oxide fumes results in shortness of breath, cough and general respiratory complaints, in addition to nausea and vomiting and aching muscles. General symptoms are similar to influenza – hence 'metal fume fever'. Symptoms of metal fume fever are often delayed for 3-10 hours and usually disappear after 24 hours rest. Ulceration of the respiratory tract and perforation of the nasal septum can occur.
If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Do not give mouth-to-mouth resuscitation. To protect rescuer, use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area. If symptoms develop seek medical attention.

PRECAUTIONS FOR USE

Exposure Limits:	Element	mg/m3 (STEL)	ppm (STEL)	ppm (TWA)	mg/m3	ppm
	Copper				0.2	
	Silver				0.1	
	Antimony				0.5	
	Tin				2.0	
	Phosphorous				1.0	

Eng. Controls: Use in an adequately ventilated area. General factory ventilation is normally sufficient. Local exhaust ventilation will be required in confined areas or where natural ventilation is not sufficient to maintain concentrations below exposure limits.

PERSONAL PROTECTION

Respirator: Where sufficient ventilation is not available, avoid breathing fumes by wearing a filter respirator.

Eye Protection: Welding face shield / goggles

Glove Type: Welding Gloves

Clothing: Overalls, eyewash unit, aprons, sleeves, shoulder covers, leggings or spats of pliable flame resistant leather or other suitable materials may also be required in position where these areas of the body will encounter hot metal.

FLAMMABILITY

Fire Hazards: Non-combustible. Non-flammable.
This product is not pyrophoric.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Storage Precautions: Store at room temperature (15 to 25^{o}C recommended). Keep well closed and protected from direct sunlight and moisture. Store away from acids and acetylene.

Transport: Not classified as a Dangerous Good.

FIRE/EXPLOSION HAZARD

Fire/Explos Hazard: This product is non-flammable and non-combustible. As with m any metals and alloys, contact with mineral acids liberates hydrogen, a flammable and explosive gas.

FIRE/EXPLOSION HAZARD (continued)

Hazardous Combustion Products: If involved in a fire generated by other means, resulting in temperatures in excess of 600^{o}C, toxic fumes of copper and zinc oxides may be evolved. Oxides of tin, silver and also silica may form.

Fire Fighting Procedures: Firefighters should wear full protective clothing and self-contained breathing equipment operated in positive pressure mode.

Extinguishing Media: Use appropriate fire extinguisher for surrounding environment. Subject to the presence of electrical shock risks, use of water fog is preferred.