

MATERIAL SAFETY DATA SHEET



Asahi Solder Bar
Sn63/Pb37
MSDS #: EAM1-1/9
Date of Preparation: February 2006

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

1.1 Product Details:

Product Name : Asahi Solder Bar

Trade Name : Asahi Solder Bar Sn63/Pb37

Use : Solder bar may be used in automated soldering for electronics and electrical assemblies.

1.2 Company's Identification:

Manufacturer's Name and Address : Singapore Asahi Chemical & Solder Industries Pte Ltd
47 Pandan Road
Singapore 609288

Telephone : (65) 6262-1616

Facsimile : (65) 6261-6311

1.3 Contact Point:

Designation : Chemist

Emergency Telephone Number: (65) 6262-1616

SECTION 2: COMPOSITION/INFORMATION ON MATERIAL

Chemical Name	CAS No.	%	OSHA PEL(mg/m ³)	ACGIH TLY (mg/m ³)	Other Limits Recommended
Tin (Sn)	7440-31-5	63	2.0	2.0	
Lead (Pb)	7439-92-1	37	0.05	0.05	
Total		100			

SECTION 3: HAZARD IDENTIFICATION

Class of Hazards Chemicals :

Effect of Acute (severe short term) Exposure: Ingestion of LEAD alloys is toxic and will induce poisoning.

INHALATION : Inhalation of soldering fumes may cause irritation to the respiratory tract and may lead to central nervous system effects (drowsiness, dizziness, headaches, nausea, vomiting, headache, joint and muscle pain).

SKIN CONTACT : NA
EYE CONTACT : Soldering fumes may cause irritation to the eyes.
INGESTION : Ingestion of lead will cause damage to health.

SECTION 4: FIRST AID MEASURES

Ingestion : Seek medical attention.
Eye Contact : Flush eyes with plenty of water immediately for at 15 minutes. Seek medical attention.
Skin Contact : Wash thoroughly with soap and warm water.
Inhalation : Evacuate to a safe area with fresh air.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media : NA
Fire Fighting Instructions : NA
Special Hazards : NA
Unusual Fire and Explosion Hazards : NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak/Spill : Place into properly labeled waste container and may be sent for recovery following appropriate recovery routes or methods.

SECTION 7: HANDLING AND STORAGE

Handling : Wash hand thoroughly with soap and water prior to eating, drinking or smoking. Do not smoke while soldering. Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial practices.
Storage : Store in a cool environment away from oxidizing agents.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Measures : Maintain general or local exhaust ventilation to meet exposure limit requirements.
Personal Protection : Operator should be protected from soldering fumes
PROTECTIVE GLOVES : Impervious rubber
EYE PROTECTION : Safety glasses

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Metallic rectangular solid bar
Odor : No odor
Solubility in water: : NA
Boiling Point(°C) : 600°C

Melting Point(°C) : 183°C
Vapor Pressure(mm of Hg at 20°C) : NA
Vapour Density (air=1) : NA
Percentage Volatiles (by Volume) : NA
Volatile Organic Compound (VOC) : NA
Evaporation Rate (butyl acetate=1) : NA
Specific Gravity (water=1 at 25°C) : 8.42
Flash Point (°C) : NA
Auto-ignition Temperature(°C) : NE

SECTION 10: PHYSICAL HAZARDS (STABILITY AND REACTIVITY)

Condition to avoid : Unknown.
Incompatibles : Oxidizing materials.
Decomposition products : Unknown.
Hazardous polymerization : Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data : Lead is toxic and will cause damage to health if ingestion.
Carcinogenicity : Not listed
Reproductive Effect : Ingestion of lead will cause damage to the male reproductive system.
Effects of overexposure (Chronic Effect): Breathing of vapors may produce respiratory irritation.
Target Organs : Respiratory system and reproductive system
Medical Conditions Generally Aggravated by Exposure : Soldering fumes may irritate the eyes.

SECTION 12: ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : Non volatile material
Biodegradability : Non biodegradable
Aquatic Toxicity : Lead is toxic and expected to be harmful to aquatic organisms

SECTION 13: DISPOSAL INFORMATION

Dispose according to federal, state and local regulations. This product is suitable for recovery following appropriate recovery routes or methods. If in doubt, contact Singapore Asahi.

SECTION 14: TRANSPORT INFORMATION

UN Number : NA
T.D.G. Classification : NA
Packing group : NA
Special shipping instruction : NA

SECTION 15: REGULATORY INFORMATION

- a. Proposed classification : Harmful.
- b. Risk phrase
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 - R33 Danger of cumulative effect.
 - R36/37/38 Irritating to the eyes, respiratory system and skin.
 - R47 May cause birth defects.
 - R48 Danger of serious damage to health by prolonged exposure.
Harmful to aquatic organisms.
- c. Safety phrase
- S3/9/14 Keep in a cool, well ventilated place away from oxidizing agents.
 - S13 Keep away from food, drink and animal feeding stuff.
 - S23 Do not breathe fume or vapor.
 - S24/25/26/28 Avoid contact with skin or eyes. In case of contact with skin, rinse immediately with plenty of water. After contact with skin, wash immediately with plenty of water.
 - S35 This material with its container must be disposed of in a safe manner.
 - S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - S44 If you feel unwell, seek medical advice.
 - S46 If swallowed seek medical advice immediately.
 - S51 Use only in well ventilated areas.
 - S59 Refer to manufacturer/supplier for information on recovery/recycling.

SECTION 16: OTHER INFORMATION

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEVED ACCURATE AND RELIABLE AS OF THE DATE INDICATED.

HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

*optional

NE = Not Established

NA = Not Applicable

PEL = Permissible Exposure Level