



A NEW FORCE IN CHEMICAL MANUFACTURING

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SAFETY DATA SHEET

ISSUED SEPTEMBER 2014 (VALID 5 YEARS FROM DATE OF ISSUE)

Solder Bars Sn63Pb37

SECTION 1 - IDENTIFICATION OF THE MATERIAL & COMPANY INFORMATION

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PRODUCT NAME

Solder Bars Sn63Pb37
Solder Stick Sn63/Pb37 - CT-6337ST
Solder Pellets Sn63/Pb67 – CT-6337SPEL
Solder for industrial applications.

PRODUCT TYPE**PART NUMBER****AVAILABLE SIZES**

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	%	ACGIH TLV	OSHA PEL
Tin	7440-31-5	63		
Lead	7439-92-1	37		

SECTION 3 - HAZARDS IDENTIFICATION

Relevant Routes of Exposure:

Inhalation. Ingestion.

Potential Health Effects:**Inhalation:**

Fumes and/or dusts produced by this product may be hazardous in case of inhalation.

Skin Contact:

This product may be hazardous in case of skin contact (irritant, sensitiser).
Skin inflammation is characterised by itching, scaling, reddening, or, occasionally, blistering

Eye Contact:

This product may be hazardous in case of eye contact (irritant)

Ingestion:

Harmful by inhalation and if swallowed

HMIS:

Health:

Reactivity:

Flammability:

PPE:

Warning:

Danger of cumulative effects
May cause harm to the unborn child
Possible risk of impaired fertility
Cancer hazard. Contains material which can cause cancer.

SECTION 4 - FIRST AID MEASURES**General Information:**

Inhalation:	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention. Fumes in high concentrations: May be harmful if inhaled. If the victim is not breathing, perform mouth-to-mouth resuscitation. SEEK IMMEDIATE MEDICAL ATTENTION
Skin contact:	Prolonged and repeated contact with bare skin may cause irritation. Wash gently and thoroughly the contaminated skin with MOLTEN METAL can cause SEVERE BURNS. In case of burns: Hold burnt area under cold running water for at least 15 minutes. Running water and non-abrasive soap. Cover with antiseptic ointment and sterile gauze. Seek IMMEDIATE medical attention.
Eye contact:	Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.
Ingestion:	Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING BY sticking finger in throat. Lower the head so that the vomit will not re-enter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point:	
Autoignition Temperature:	
Flammable/Explosive Limits - Lower %:	
Flammable/Explosive Limits - Upper %:	
Extinguishing Media:	Small fire: Use DRY chemical powder. Large fire: Use water spray, fog or foam. NO water jet.
Special Fire Fighting Procedures:	Use an approved/certified respirator or equivalent.
Unusual Fire or Explosion Hazards:	Metallic part of product is non-flammable. Non explosive in presence of shocks, of heat.
Hazardous Combustion Products:	Products are carbon oxides; carbon monoxide and carbon dioxide. Some metallic oxides. Depending on conditions, some aliphatic aldehydes and carboxylic acids may also be formed.

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Environmental Precautions:**

Clean-up Methods:	Small spill and leak – MOLTEN METAL: Let cool before picking up and returning to process or recycling. OTHER: Use appropriate tools to put the spilled solid in a container reserved to that effect. Large spill – Our data base contains no additional information in case of a large spill and/or leak of the product.
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SECTION 7 - HANDLING AND STORAGE

Handling:	Avoid contact with the skin,. Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Use in a well ventilated area. When using, do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Storage:	Keep container dry. Keep in a cool place.

Suspected carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room. Follow special instructions on container and analysis reports for additional storage information

Incompatible products: Refer to Section 10.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations .

HANDLING: gloves (disposable or vinyl), safety glasses or splash goggles, lab coat.

GENERAL USE: Use gloves [suitable to the operation], safety glasses or splash goggles; wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Suggested protective clothing may not be adequate for a specific process. Consult a specialist before handling.

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory protection: Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Skin protection: Use gloves [suitable to the operation].
lab coat.

Suggested protective clothing may not be adequate for a specific process. Consult a specialist before handling.

Eye/face protection: Safety glasses or splash goggles

Exposure Limits: See *Section 2 - Composition/Information on Ingredients*

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Colour: Dark grey

Odour: None

Vapour Pressure: Not applicable

pH: Not applicable

Boiling Point/Range: Not applicable

Melting Point/Range: Melting point weighted average: 200° C

Specific Gravity: Weighted average 7

Vapour Density: Not applicable

Evaporation Rate: Lower than 1

Solubility in Water: Insoluble in water and oil, n-octanol, acetone

VOC Content:

Ionicity (in water) Non-ionic

Dispersion properties Is not dispersed in cold water, hot water, n-octanol, acetone.

Evaporation rate Lower than 1

Corrosivity Corrosive in presence of copper

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable.

Over the melting point will emit toxic lead and tin oxide fumes.

Hazardous polymerization:

Hazardous decomposition products: Lead and tin oxide fumes

Incompatibility: Reactive with oxidising agents

Conditions to avoid: See *Section 7 - Handling and Storage*

Refer to 'Incompatibility', this section, above

SECTION 11 - TOXICOLOGICAL INFORMATION

Product toxicity data:

Chronic effects on humans

Carcinogenic effects: [Lead]: Classified + (Proven) by OSHA, A3 (Proven for animal) by ACGIH, 2B (Possible for human) by IARC.

Developmental toxicity: Proven [Lead].

Mutagenic effects: Not available.

Teratogenic effects: Classified 1 by European Union.

The product may be toxic to lungs, upper respiratory tract, skin, eyes, blood, kidneys, the nervous system, the reproductive system, spleen, brain, digestive system, gastro-intestinal tract, eye, lens or cornea, thyroid.. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Other toxic effects on humans

Human: Lead crosses the placental barrier.

Overexposure to fumes may cause irritation to the respiratory tract, digestive system and to the eyes. Overexposure to tin oxide fumes may results in benign pneumoconiosis (stannosis).

Repeated and prolonged contact may cause skin irritation, dermatitis and/or an allergic skin reaction (sensitisation) in susceptible individuals.

Special remarks on other toxic effects on humans

Inhalation of smoke or fumes, at high temperatures, may cause an asthmatic reaction in some individuals. Prolonged and repeated contact with bare skin may cause irritation or dermatitis. MOLTEN METAL can cause severe BURNS.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Not available.

Persistence and degradability

Not available.

Products of biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of biodegradation

The products of degradation are less toxic than the product itself.

Mobility

Not available.

Environmental fate

Not available.

Bioaccumulative potential

Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Waste must be disposed of in accordance with local regulations.

Container Disposal:

SECTION 14 - TRANSPORT INFORMATION

Dangerous Goods Classification

Not a Dangerous Good (ADG Code)

UN Number

Not applicable

UN Proper Shipping Name

Not applicable

Class and subsidiary risk

Not applicable

Packing Group

Not applicable

Special precautions for user

Hazchem Code

Not applicable

IMDG Classification

Not controlled

IATA Classification

Not controlled

ADR/RID Classification

Not controlled (Europe)

SECTION 15 - REGULATORY INFORMATION

Poisons Scheduling (Australia SUSDP) Based on the ingredients this product is not a scheduled poison.

DISCLAIMER

The information contained within this MSDS applies only to the ChemTools product to which the sheet relates.

The information provided is based on our best knowledge at the time of issue.

The information contained within this MSDS is believed to be accurate and is given in good faith. However, no warranty is made, either expressed or implied, regarding its accuracy or any liability arising out of the use of the information herein or the product supplied.

When used in other preparations, formulations, or in mixtures, it is necessary to ascertain whether the classifications of the hazards have changed. The attention of the user is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it was recommended. In such cases, a reassessment may be necessary and should be made by the user.

This safety data sheet should only be used and reproduced in order that the necessary measures are taken relating to the protection of health and safety at work.

It is the responsibility of the handlers to pass on the totality of the information contained within this document to any subsequent person(s) who will come in to contact with, handle or use this product in any way.

They should check the adequacy of the information provided within this MSDS before passing it on to their customers/staff.