SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Lead (Pb), Tin (Sn) & Antimony (Sb) Alloys

Synonyms Bullet Casting Alloys (variations of % weight of each alloy may vary

based on the expected alloy)

Recommended uses Bullet casting, ballast weight, Soldering, Casting

Company Industrial Surquillo S. A. C.

Jr. Inca № 1001 Surquillo, Lima, PERU Telephone: +511 445 4142

Fax: +511 446 1941

Emergency phone: +511 445 4142

2. HAZARDS IDENTIFICATION

Classification

Hazard class Acute toxicity, oral and inhalation (Category 4). Harmful if swallowed

or inhaled (H302+H332). Do not eat, drink or smoke when using this

product (P270). Avoid breathing dust and fumes (P261).

Hazard class Carcinogenicity (Category 2). Suspected of causing cancer (H351).

Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281). Elemental lead is

a possible human carcinogen (IARC-2B).

Hazard class Reproductive toxicity (Category 1A). May damage fertility or the

unborn child (H360).

Hazard class Specific target organ toxicity, repeated exposure (Category 2). May

cause damage to organs through prolonged or repeated exposure (H373). Do not eat, drink or smoke when using this product (P270).

Hazard statements Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Precautionary Statements -

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do

not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face

protection.

Precautionary Statements – Response

Skin IF ON SKIN, wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention Take off contaminated clothing and wash before reuse

Eyes IF IN EYES, rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion IF SWALLOWED, call a POISON CENTER or doctor/physician if you feel

unwell rinse mouth

Precautionary Statements -

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Lead	7758-98-7	74-99
Antimony	7440-36-0	0.0-14.0
Tin	7440-31-5	0.0-7.0

4. FIRST AID MEASURES

First aid measures

Eye contactMolten metal may splash. Seek medical attention immediatelySkin contactDermatitis, wash hands before eating, drinking or smokingInhalationFumes from welding or grinding can in excess cause "Metal Fume

Fever". Remove victim and get aid.

Ingestion Metallic Taste, abdominal cramps, frequent headaches, foul breath,

stomatitis, nephritis.

Most important symptoms/effects

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE - FIGHTING MEASURES

Suitable extinguishing media Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire.

Unsuitable extinguishing media No information available Flash point No information available Method No information available Autoignition temperature No information available

Explosion limits

Upper No data available Lower No data available

Sensitivity to mechanical impact No information available Sensitivity to static discharge No information available

Specific hazards arising from

the chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic

fumes.

Hazardous combustion products Highly toxic fumes Sulfur oxides

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear. NFPA

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment

ventilation. Avoid dust formation. Avoid contact with skin,

eyes and clothing.

Environmental Precautions

Environmental precautions Should not be released into the environment. See Section 12

for additional ecological Information.

Methods and material for Containment and Cleaning up

Methods for containment and clean

Up

Sweep up or vacuum up spillage and collect in suitable

container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Ensure adequate

ventilation. Avoid dust formation.

Avoid contact with skin, eyes and clothing. Avoid ingestion

and inhalation.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead	0.05 mg/m ³	0.05 mg/m ³	0.05 mg/m ³
	TWA	TWA	TWA
	0.03 mg/m ³	0.03 mg/m ³	Air concentrations should be
	Action Level	Action Level	maintained so that worker
			blood lead remains less than
			0.06 mg Pb/100 g of whole
			blood

Legend

ACGIHAmerican Conference of Governmental Industrial HygienistsNIOSH IDLHThe National Institute for Occupational Safety and Health

Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering measures Ensure adequate ventilation, especially in confined areas. Ensure that

eyewash stations and safety showers are close to the workstation

location.

Personal Protective Equipment

Eye/face protection Wear appropriate protective eyeglasses or chemical safety goggles as

described by OSHA's eye and face protection regulations in 29 CFR

1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin

exposure.

Respiratory protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European

Standard EN 149 approved respirator if exposure limits are exceeded

or if irritation or other symptoms are experienced

Hygiene measures Handle in accordance with good industrial hygiene and safety

practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Powder/Solid

Appearance Grey
Odor Odorless

Odor threshold No information available

Property Values
pH Unknown
Melting point/Range 692 °F
Boiling point/Range Unknown

Flash point No information available

Evaporation pate No pertinent

Flammability (solid, gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available

Vapor pressure No information available Vapor density No information available

Relative density 0.41

Solubility No information available

Partition coefficient; n-octanol/water No data available

Autoignition temperature No information available
Decomposition temperature No information available
Viscosity No information available

Molecular formula Pb Specific gravity 9.73

10. STABILITY AND REACTIVITY

Reactive hazard None known, based on information available Stability Stable under normal conditions. Hygroscopic.

Conditions to avoid Avoid dust formation. Incompatible products. Excess heat.

Exposure to moisture.

Incompatible materials Strong bases, Metals, Alkali metals, Powdered metals

Hazardous decomposition products Highly toxic fumes, Sulfur oxides

Hazardous polymerization Hazardous polymerization does not occur

Hazardous reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lead	Lowest published dose 450	Not listed	Not listed
Antimony	Not listed	Not listed	Not listed
Tin	Not listed	Not listed	Not listed

Toxicologically synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any

ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Lead	7758-98-7	2B		A3		
Antimony	7440-36-0	N/A	N/A	N/A	N/A	N/A
Tin	7440-31-5	N/A	N/A	N/A	N/A	N/A

Mutagenic effects
Reproductive effects
Developmental effects
No information available
No information available
No information available
No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and

delayed No information available Endocrine disruptor information No information available

Other adverse effects See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment. Do not empty

into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lead	Not listed	Not listed	Not listed	Not listed
Antimony	Not listed	Not listed	Not listed	Not listed
Tin	Not listed	Not listed	Not listed	Not listed

Persistence and degradability
Bioaccumulation/ accumulation
Mobility
No information available.
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Chemical waste generators must determine whether a

discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete

and accurate classification

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS

Legend:

X - Listed

- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Cupric sulfate	7758-98-7	98	1.0

SARA 311/312 Hazardous Categorization

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous	CWA -	CWA - Toxic	CWA - Priority
	Substances	Reportable	Pollutants	Pollutants
		Quantities		
Lead	Х	10 lb	Х	

Clean Air Act Not applicable

OSHA Occupational Safety and Health

Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Lead	10 lb	-

US State Regulations California Proposition 65

This product does not contain any Proposition 65 chemicals

US State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead	х	х	х	-	-

U.S. Department of Transportation

Reportable quantity (RQ) N

DOT Marine pollutant N DOT Severe

Marine pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard class D1B Toxic materials D2B Toxic materials

16. OTHER INFORMATION

Creation Date May-2015
Revision Date May-2015
Print Date May-2015

Revision Summary This document has been updated to comply with the US

OSHA HazCom 2012 Standard replacing the current

legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of

Chemicals (GHS)

DISCLAIMER

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.