106080

(35423 Safety Data Sheet

V#017723

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product Name Product Code

Belmont Lead Base 412 Casting Alloy (LINOTYPE) **58410**

Product List 1.2. Relevant identified uses of the substance

or mixture and uses advised against

LEAD, TIN, ANTIMONY ALLOY

Identified uses 1.3. Details of the supplier of the SDS

Belmont Metals Inc.

Company identification

330 Belmont Avenue Brooklyn, New York 11207 USA +1.718.342.4900

Manufacturing of Castings, Others.

Phone:

Emergency Phone: (718) 342-4900 (Alloy Info)

For MEDICAL Emergency, contact a Poison Control Center or DR./ Physician.

The Non Ferrous Specialists since 1896

2. HAZARDS IDENTIFICATION

NOTE: In the solid form (INGOT) in which it is provided, this material does not pose a health hazard. We have included additional safety data since this product is handled through subsequent operations performed by the end user, such as exposure to high temperatures, melting or grinding that may produce toxic metallic or oxide dust or fume.

Belmont Metals Inc. does not warranty this material for any specific application and all precautions must be taken by the end user to prevent and protect against exposure to inhalable particulate. See section 8 for information on exposure controls and personal protection.

WHMIS (Canada)

: CLASS D-2A: Very toxic material (Lead) causing other toxic

2.1. Hazard Classes (categories) Hazard statements

- Lead / Antimony HMIS Rating



Mutagen (2): H341- Suspected of causing genetic defects. Reprotoxic (2): H361 - Suspected of damaging fertility or the unborn child.

. STOT RE (1): H372-Causes damage to organs through prolonged or

repeated exposure.

Aquatic acute (1): H400- Very toxic to aquatic life. H410- Very toxic to aquatic life with long lasting effects.

Hazard words Warning



Mutagen reproduction toxic



Hazardous to the aquatic environment

Precautionary Statements

- P260 P264

P270 P273

- P281

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash (hands, face, and contaminated skin by the product) thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Use personal protective equipment as required.

2.2. Other hazards

Reactive with

Acids, oxidants. Release of hydrides, hydrogen.

Possibility of eye and skin irritation (Particles).
Ingestion will nearly always cause acute gastro-intestinal irritation.

Possibility of other organs and body systems damages. - Acute exposure



3. COMPOSITION / INFORMATION OF INGREDIENTS

Hazard Statements CAS-No. Percentage (%) EC-No. Name

7440-31-5 7440-36-0 Tin < 5 231-141-8 None Antimony < 12 231-146-5 H410

H341 - H361 - H372 - H400-H410 Lead 7439-92-1 > 85 231-100-4

4. FIRST AID MEASURES

4.1. Description of first aid measures

- Eye contact

- Ingestion

P305+P351+P338-If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

- Skin contact

rinsing. P302+P352-IF ON SKIN: Wash with plenty of soap and water. P333+P313-IF skin irritation or rash occurs: Get medical

- Inhalation

P308+P313-IF exposed or concerned: Get medical advice/attention. If breathing is difficult, give exygen.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTRE

or doctor/physician.
P330-Rinse mouth. Induce vomiting.
UNCONSCIOUS persons: DO NOT induce vomiting or give any ilquids.

5. FIRE-FIGHTING MEASURES

5.1. Fire-fighting measures

Flash point Flammable limits

Auto-ignition temperature Products of combustion

Fire hazard

- Explosion hazard

- Extinguishing media

- Protective equipment

NFPA Rating

Not available. Not available. Not available.

Metal oxides

Solid form: No fire hazard. Avoid melting moist metal. Dust: Flammable when exposed to heat or flames. Heated and on contact with acids or acid fumes, metals can release hydrogen and form

Stibine, (Extremely toxic gas).
Tin: Fine dust combustible when exposed to heat.

Antimony: Spontaneously fiammable in fluorine, chlorine or bromine. With iodine: Reaction produces heat, which may cause flames or explosion if quantities are great enough. Dust or vapors exposed to heat or flame: Moderate fire or explosion hazard.

Lead: In contact with fire or heat source, it may melt and then if in contact with water, will cause a violent reaction. Possibility of toxic Lead vapors formation.

: Not explosive (Mechanical impact; Static discharge). NEVER spray water

on burning metal because of the risk of explosion which would splatter flaming particles of metal to great distances.

Dust: Slightly explosive to explosive in presence of open flames and

NON-FLAMMABLE. Use firefighting materials and procedures adapted

to the immediate environment.

Fire-fighters must wear full protective clothing and self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Methods

P391-Collect spillage

Use appropriate tools to place spilled materials in suitable containers

for reclamation or disposal.

- Protective equipment

High concentration of fumes or dust or risk of emission of toxic material (Stibine): Use a positive-pressure, self-contained breathing apparatus (SCBA) to avoid inhalation of material. Low concentrations : Use a NIOSH/OSHA approved full face cartridge respirator or the equivalent. Full protective clothing. Work gloves and boots.



7. HANDLING AND STORAGE

- Handling

DO NOT ingest or inhale dust. Wear adequate protective clothing. Wear approved respirators if adequate ventilation cannot be provided. Ingestion or inhalation: Seek medical advice immediately and provide medical personnel with a copy of this SDS.

Heated and on contact with acids or acid furnes, metals (Aluminum,

zinc, iron, etc.) can release hydrogen: Nascent hydrogen may form: Antimony hydride (Stibine) (Extremely toxic gas). If hydrides suspected in the area, the workplace must be immediately evacuated. Personnel entering this area MUST wear positive-pressure, self-contained breathing apparatus (SCBA). P405-Store locked up. Container tightly closed. Well ventilated area.

- Conditions for storage Away from: Moisture, incompatible substances (Acids).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	CAS-No.	Percentage (%)	TVL-TWA (mg/m3)	PEL-TWA (mg/m3)	TWAEV (mg/m3)
Tin	7440-31-5	70 - 100	2 (Sn)	2 (metal, compounds)	2 (metal)
Antimony	7440-36-0	1 - 10	0.5 (Sb, compounds Sb)	0.5 (Sb, compounds	0.5 (Sb, compounds
Lead	7439-92-1	0 – 1	0.05 (Pb, inorganic compounds Pb)	0.05 (Pb, Pb	0.05 (Pb, inorganic compounds Pb)

NOTE:

Tin: ACGIH TLV TWA: Metal, oxide, inorganic compounds (Sn) except SnH. OSHA PEL-TWA: Metal, inorganic compounds (Sn) except oxides, NIOSH REL-TWA (≤10 hours): 2 mg/m3 (except oxides); IDLH: 100 mg/m3.

Antimony: ACGIH TLV-TWA: Elemental and compounds. NIOSH REL-TWA (≤10 hours): 0.5 mg/m3; IDLH: 50

Lead: ACGIH TLV TWA: 0.05 mg/m3 (Lead and inorganic compounds). NIOSH REL-TWA ((≤10 hours): 0.05 mg/m3; REL also applies to other lead compounds (as Pb); ; IDLH: 100 mg/m3 (metal; compounds). OSHA PEL-TWA: PEL also applies to other lead compounds (as Pb).

Consult local authorities for acceptable exposure limits

- Engineering Controls - Individual protection

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

Safety goggles. Coverall. Work gloves and boots. Dust respirator. Be sure to use a NIOSH approved respirator or equivalent when concentrations exceed occupational exposure limits.











9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color

Odor

Molecular weight Molecular weight pH (1% soln/water) Bolling point [°C] Melting Point [°C] Critical temperature Specific gravity

Vapor pressure

Vapor density Solubility (Water) Volatility

Solid (Pig Ingot, Bar, Granular, Shot). Grey to Silver. Odorless or Metallic Odor.

Not applicable.

Not applicable. Not applicable.

Not available.

Weighted average: 462 - 477 °F

Not available.

Weighted average: > .33 lb. / Cu Ft

Not available.

Not available.

Not available.



% moisture Odor threshold Water/oil dist. Coeff. Ionicity (in water) Dispersion (Water)

Not available. Not available.

Not available. Not available.

No.

10. STABILITY AND REACTIVITY

10.1. Stability 10.2. Reactivity

10.3. Hazardous decomposition products

10.4. Conditions to avoid

10.5. Dangerous polymerization 10.6. Materials to avoid

Yes (under normal temperature conditions of ambient temperature). Reactive or incompatible with: Acids,

Metal oxides. Heated and on contact with acids or acid fumes, metals (Soft or galvanized metal, aluminum) can release hydrogen and form antimony hydride (Stibine) (Extremely toxic gas).

Acids.

Tin: Reacts violently under certain conditions with: Chlorine, bromine, trifluoride (Chlorine, bromine), acids and oxidants. Can react with some extinguishing agents (Bicarbonate powder, carbon dioxide).

Antimony: Possibility of violent reaction with: Ammonium nitrate,

bromate trifluoride, halogens, chloric acid, chlorine trifluoride, nitric acid, potassium nitrate, potassium permanganate, dipotassium peroxide, sodium nitrate and oxidants.

Lead: Violent reaction on ignition with: Chlorine trifluroide, concentrated hydrogen peroxide, ammonium nitrate, sodium acetlylide. Other incompatibilities: Sodium nitrate, zirconium, disodium acetylide, oxidants.

NOTE: This list of products is not exhaustive. Verify technical documents to determine any incompatibilities with your process.

10.7. Corrosivity

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- Route of entry Carcinogenicity

Ingestion. Inhalation. Eyes and skin contact.

Lead: POSSIBLE (Group 2B, IARC) (EPA); CARCINOGEN (Animal, A3

ACGIH).

Tin : NOT A CARCINOGEN (IARC, OSHA, NTP) ; NOT LISTED(ACGIH).
Antimony: NOT LISTED (IARC, ACGIH).

- Mutagenicity

- Teratogenicity

Lead: Cytogenetic analysis; DNA. (RTECS).

Lead: SUSPECTED (OSHA). Effects on embryo or foetus, fertility

(RTECS).

- Acute toxicity

Tin: UNREPORTED ROUTE acute (LoTD): 250 mg/kg (Human).

Antimony: ORAL acute (LD50): 7 000 mg/kg (Rat).

INTRAPERITONEAL acute (LD50): 100 mg/kg (Rat); 80 mg/kg

(Mouse). (RTECS).

- Acute effects

Solid form: No health hazards. Conditions and work practices which generate dust or fumes should be avoided or controlled. Other forms: Dangerous (ingestion, inhalation).

Lead: Absorption is easier by inhalation and symptoms develop more quickly than by ingestion. Symptoms: Loss of appetite, anemia, insomnia, headache, muscle and joint pain. Toxicity by ingestion compared to those by Inhalation, requires greater concentrations before symptom onset.

- Chronic effects

Non-controlled repeated or prolonged exposure: Possibility of target organ damages (Blood, kidneys, liver, lungs; nervous and reproductive systems). Repeated exposure: Possibility of a general

health deterioration by an accumulation in one or many organs.



Tin: Low toxicity for humans. Chronic inhalation of oxide (Dust, fume) may cause stannosis (Benign pneumoconiosis) without any pulmonary functional impairment. Other sensitive organs: Kidneys, central nervous

Antimony: The principal toxicological properties mimic those of arsenic such as: abdominal cramps, nausea, vomiting, watery diarrhea which may be bloody. Possibility of dermatitis called antimony spots: Papules and pustules around sweat and sebaceousglands (Generally on the forearms) which resemble chicken pox and are transient in nature. Some people may develop an allergy to antimony metal. Inhalation (Antimony and compounds): Possibility of pneumoconiosis which can lead to some obstructive lung disease.

There is some evidence that antimony may have some effect on the heart.

- Toxicity

Persons with the following pre-existing conditions warrant particular attention:-

Tin: Respiratory system (Inorganic compounds). Antimony: Pulmonary and cardiac conditions. Lead: Anemia, pregnant or breast feeding women and women of child bearing age. Preferred method for biological monitoring: Blood lead levels (Pb blood) measurement (BEI 30 µg/100 mil); Sampling time : Not critical.

Eating, drinking and smoking must be prohibited in areas where this material is handled and processed. Wash hands and face before eating, drinking and smoking.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

- Toxicity to animals

Heavy metals: Harmful to aquatic life.

Tin: UNREPORTED ROUTE acute (LoTDI): 250 mg/kg (Human).

(RTECS).

Lead: ORAL acute (LoLD): 155 mg/kg (Human); 0.2 mg/kg (Rat). INHALATION acute (LoTC): 10 µg/m3 (Human). INTRAPERITONEAL acute (LoLD): 1 g/kg (Rat. (RTECS).

12.2. Mobility in soil 12.3. Persistence and degradability

12.4. Bioaccumulation 12.5. Biodegradation

products Blodegradation products (Toxicity) Not applicable Not applicable.

Not applicable.

Not biodegradable. Not applicable.

12.6. Other adverse effects

- Remarks on environment

Due to the product's composition, particular attention must be taken : Substances potentially toxic to aquatic life include Lead. Run-off water may become acidic and may be harmful to flora and fauna. Not available.

- BODS and COD

13. DISPOSAL CONSIDERATIONS

13.1. Disposal methods

Scrap metal alloy usually has value. Contact a commercial recycler for recycling. Otherwise, dispose of in accordance with all Federal, State and Local environmental regulations.

P501-Dispose of contents/container in full compliance with Federal, Provincial and local regulations.



14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Solid metal mixtures are not hazardous under shipping regulations (ground/air/sea).

UN - none

US DOT (United States Department of Transportation: Not regulated

TDG (Pictograms)

Not regulated (Canada).

IATA PIN

Not applicable.

Not applicable.

Special provisions (Transport) Marine Pollutant: No

Not applicable.

15. REGULATORY INFORMATION

- Labelling (GHS)

- Labelling (DSD)

EU: Consolidated Inventories: Listed

Tin: EU Consolidated Inventories: EC Number 231-141-8. Antimony: EU Consolidated Inventories: EC Number 231-146-5. Lead: EU Consolidated Inventories: EC Number 231-100-4.
Not classified in the Annex I of Directive 67/548/EEC.
Not listed in the Annex I of Council Regulation No (EC) 304/2003.

Not listed in a priority list (as foreseen under Council Regulation (EEC) No

793/93.

Risk phrases (DSD)

Safety phrases (DSD)

R48/23/25-Toxic: danger of serious damage to health by prolonged

exposure through inhalation and if swallowed. R50/53-Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment, R62-Possible risk of impaired fertility. R63-Possible risk of harm to the unborn child. R68-Possible risk of irreversible effects.

S22-Do not breathe dusts.

S36-Wear suitable protective clothing.
S45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53-Avoid exposure - obtain special instructions before use. S60-This material and/or its container must be disposed of as

hazardous waste. S61-Avold release to the environment. Refer to special

instructions/Safety data sheets.

CEPA DSL (CANADA) CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) : on the

Domestic Substances List (DSL); acceptable for use under the provisions

of CEPA.

Regulation (U.S.A.) CERCLA Section 103 Hazardous substances (40 CFR 302.4); SARA

110 ATSDR CERCLA Priority List: Listed; SARA Section 313, Toxic Chemicals (40 CFR 372.65): Listed.
Antimony (RQ): *5 000 pounds (2 270 kg).
Lead (RQ): *10 pounds (4.54 kg).

TSCA (EPA, Toxic Substance Control Act) Chemical Inventory (40 CFR710): Listed.

Tin ; Antimony ; Lead ;

* No declaration required if the diameter piece of solid metal released is

equal to or exceeds 100 micrometers (0.004 inches).

Classifications HCS (U.S.A.)

NFPA (National Fire Protection Association)

Toxic.

Fire Hazard 0

Reactivity 0

Health 2 Special Hazard



SARA 313 Listing - 40 CFR 372.65: Lead CAS# 7439-92-1, Copper CAS# 7440-50-8, Antimony CAS# 7440-36-0, All ingredients are listed on the US EPA TSCA Inventory.

All Ingredients are listed on the Canadian Domestic Substance List, the Chinese Chemical Inventory, the Philippines Inventory of Chemicals, the Korea Inventory of Existing Chemicals, the European Inventory of Existing Commercial Chemical Substances, the New Zealand Inventory of Chemicals and the Australian Inventory of Chemicals. EPA Genetic Toxicology Program – Lead CAS# 7439-92-1,

EC Classification, Packaging and Labeling Requirements: None Hazard Classification of Product: None

CALIFORNIA (PROPOSITION 65):

The components of this material are known in the State of California to cause cancer, and/or birth defects (or other reproductive harm).

16. OTHER INFORMATION

MANUFACTURER DISCLAIMER:

Belmont Metals Inc. believes that the information contained in this Safety Data Sheet (SDS) is accurate as of the "Date of Last Revision" specified on this SDS. As the condition or methods of use are beyond Our control, we do not assume any responsibility and expressly disclaims any liability for any use of this material. The information relates only to typical properties of the product. Do not use the information for product performance or specification purposes. The information is for use by technically skilled persons at their own risk whom must determine the conditions of safe use of the products.

BELMONT MAKES NO EXPRESSED OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR THE INFORMATION WITHIN.

This information may not be valid for product use in combination with any other product or material or in any process. Belmont expressly disclaims any liability arising from any use of the product or any reliance on the information. Do not treat the information (a) as assurance that use of the product will not infringe patent or other rights or (b) as a license or grant of patent or other property rights.

Created: January 5th 2015 Reviewed 05/05/15 Rev: 001