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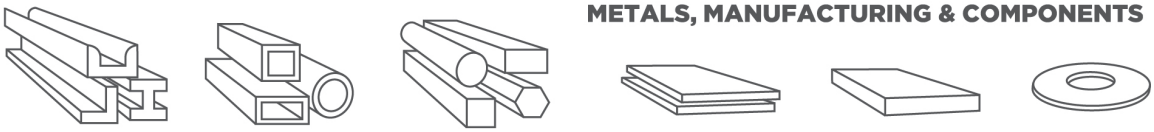
METALS, MANUFACTURING & COMPONENTS



Safety Data Sheet
Lead

SECTION 1: Identification

1.1 Product identifier

Product name: Lead

1.2 Other means of identification
Not available

1.3 Recommended use of the chemical and restrictions on use
Lead Raw Materials & Components

1.4 Supplier's details

Name: Reliable Source, Inc.
Address: 11109 Jasmine St
Fontana, CA 92337
USA

Telephone: 909-357-1211
Fax: 909-357-1311
email: info@rsmetals.us

1.5 Emergency phone number(s)

909-357-1211 (business hours)

SECTION 2: Hazard identification

General hazard statement
The product as delivered does not present a health hazard. However, if user activities generate dust, fumes or mists during processing and handling (melting, welding, sawing, brazing, grinding and machining), it may become hazardous.

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, oral, Cat. 4
- Acute toxicity, inhalation, Cat. 3
- Carcinogenicity, Cat. 2
- Toxic to reproduction, Cat. 1A
- Toxic to reproduction, effects on or via lactation

- Specific target organ toxicity (repeated exposure), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word **Danger**

Hazard statement(s)

H302	Harmful if swallowed
H331	Toxic if inhaled
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children
H372	Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell. Rinse mouth.
P304+P340+P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P403	Store in a well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations.

2.3 Other hazards which do not result in classification

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Components

Component	Concentration
LEAD (CAS no.: 7439-92-1; EC no.: 231-100-4)	**91 – 99.9 % (weight)**
ANTIMONY (CAS no.: 7440-36-0; EC no.: 231-146-5)	**≤ 9 % (weight)**

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
If swallowed	Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

In case of eye contact	Dust, vapors, and/or fumes may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
If inhaled	Dust, vapors, and/or fumes may cause respiratory irritation and acute/chronic overexposure.
In case of skin contact	Dust, vapors, and/or fumes may cause skin irritation. Signs/symptoms may include localized redness, dryness, swelling, and itching.
If swallowed	May cause gastrointestinal irritation and acute/chronic overexposure.

Acute overexposure to dust, vapors, and/or fumes may cause metallic taste in mouth, weakness, vomiting, colic, loss of appetite and weight, uncoordinated body movements, convulsions, stupor, diarrhea, bloody stools, and possible coma.

Chronic overexposure to dust, vapors, and/or fumes may cause weakness, insomnia, hypertension, slight irritation to skin and eyes, metallic taste in mouth, anemia, constipation, headache, muscle and joint pains, neuro-muscular dysfunction, possible paralysis and encephalopathy, metal fume fever, loss of appetite, nausea, and pneumoconiosis.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water on fires where molten metal is present. The rapid expansion of steam could cause an explosion.

5.2 Specific hazards arising from the chemical
Combustion products may contain metal oxides. Molten metals produce dust, vapors, and/or fumes that may be toxic and/or respiratory irritants.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid actions that cause dust to become airborne. Do not breathe dust or fumes. Avoid contact with skin. Wear appropriate personal protective equipment as described in Section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Ensure adequate ventilation. Avoid dust or fume formation. Avoid ingestion and inhalation. Do not inhale fumes from soldering, welding, cutting or brazing processes. Avoid contact with skin, eyes and clothing. Launder contaminated clothing before reuse. For precautions see section 2.2.
Before using this product, get familiar with lead exposure information in OSHA Safety and Health Regulations 29CFR1910.1025 and 29CFR1926.62.

7.2 Conditions for safe storage, including any incompatibilities
Normal temperatures and pressures do not affect the material. Keep in a dry and well-ventilated place.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

	OSHA PEL (C) Ceiling	Cal/OSHA PEL 8-hour TWA (ST) STEL (C) Ceiling	NIOSH REL Up to 10-hour TWA (ST) STEL (C) Ceiling	ACGIH® TLV® 8-hour TWA (ST) STEL (C) Ceiling
Lead inorganic (as Pb) (CAS no.: 7439-92-1) see 1910.1025		0.05 mg/m³	0.05 mg/m³	0.05 mg/m³
Antimony & compounds (as Sb)	0.5 mg/m³	0.5 mg/m³	0.5 mg/m³	0.5 mg/m³

Abbreviations: C = Ceiling limit; Ca = Potential occupational carcinogens; CAS No. = Chemical Abstract Service Number; IHL = Inhalable; ppm = parts per million; STEL = Short Term Exposure Limit; Thor. = Thoracic fraction; TLV® = Threshold Limit Value; TWA – Time weighted average

8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection
When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Wear face shield during welding or burning. Eye protection equipment must be tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Skin protection
Wear protective gloves suitable for the material handled. Consult manufacturer specifications for further information.

Body protection
Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Avoid actions that cause dust or fume exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. For respiratory protection regulations see OSHA 29CFR1910.1025(f) or 29CFR1926.62(f).

Thermal hazards
No data available.

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Silver-gray metal solid
Odor	No odor
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	~ 621º F
Initial boiling point and boiling range	~ 3164º F
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.

Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Specific gravity	~ 11.3
Solubility(ies)	Negligible solubility in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Incompatible with acids, sodium carbide, trioxane, hydrogen peroxide, sodium azide, disodium acetylide, sodium acetylide, zirconium and ammonium salts. Antimony is spontaneously flammable with nitrates, halogens (fluorine, chlorine or bromine) and halogenated compounds. Antimony reacts with hydrogen to form toxic stibine (SbH_3) gas.

10.6 Hazardous decomposition products
High temperatures may produce heavy metal dust, vapors, and/or fumes.

SECTION 11: Toxicological information

Information on toxicological effects
The product as delivered does not present a significant health hazard. However, if user activities generate dust, fumes or mists during processing and handling (melting, welding, sawing, brazing, grinding and machining), it may become hazardous.

Acute toxicity
Harmful if swallowed. Toxic if inhaled.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.
Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.

Components:

ANTIMONY (CAS no.: 7440-36-0; EC no.: 231-146-5)
LD50 Oral - Rat
Result: 7000 mg/kg

Skin corrosion/irritation
Dust, vapors, and/or fumes may cause skin irritation.

Serious eye damage/irritation
Dust, vapors, and/or fumes may cause eye irritation.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
Suspected of causing cancer

Components:

LEAD (CAS no.: 7439-92-1)
IARC: 2B - Possibly carcinogenic to humans
NTP: Reasonably anticipated to be Human Carcinogen

Reproductive toxicity
May damage fertility or the unborn child. May cause harm to breast-fed children.

STOT-single exposure
No data available

STOT-repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
Based on available data, classification data are not met

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
No data available on product

Persistence and degradability
No data available on product

Bioaccumulative potential
No data available on product

Mobility in soil
No data available.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal of the product
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components
WARNING! This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical name: Lead and Lead Compounds
CAS number: 7439-92-1
10/01/1992 – Cancer
02/27/1987 - Developmental Toxicity
02/27/1987 - Female Reproductive Toxicity
02/27/1987 - Male Reproductive Toxicity

Massachusetts Right To Know Components

LEAD (CAS no.: 7439-92-1)

ANTIMONY (CAS no.: 7440-36-0)

New Jersey Right To Know Components

LEAD (CAS no.: 7439-92-1)

ANTIMONY (CAS no.: 7440-36-0)

Pennsylvania Right To Know Components

LEAD (CAS no.: 7439-92-1)

ANTIMONY (CAS no.: 7440-36-0)

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

LEAD (CAS no.: 7439-92-1)

ANTIMONY (CAS no.: 7440-36-0)

HMIS Rating

Lead	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating

SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: April 27, 2020.

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