

## 1 Identification

- **Product identifier**
- **Trade name:** LINQALLOY Sn63Pb37 Series
- **Recommended use:** Industrial use
- **Restrictions on use:** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
CAPLINQ Europe BV  
Industrieweg 15E  
1566JN Assendelft  
The Netherlands  
+31 20 893 2224  
reach@caplinq.com  
  
CAPLINQ Americas Inc.  
36927 Schoolcraft Rd  
Livonia, MI 48150  
USA  
Tel: +1 (313) 558-8243  
  
CAPLINQ Corporation  
957 Snowshoe Crescent  
Orleans ON, K1C 2Y3  
Canada  
Tel: +1 (613) 482-2215  
  
CAPLINQ Malaysia Sdn Bhd  
S-08-07, Persiaran Kelicap Setia Triangle  
11900 Bayan Lepas, Penang  
Malaysia  
Phone: +60 (12) 430 2223
- **Emergency telephone number:** 1 (800) 343-5636

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Carcinogenicity 2  
Toxic to Reproduction 1A  
Specific Target Organ Toxicity - Repeated Exposure 1  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
lead
- **Hazard statements**  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.

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H372 Causes damage to organs through prolonged or repeated exposure.

**· Precautionary statements**

- 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.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Other hazards**

**· Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

**3 Composition/information on ingredients**

**· Chemical characterization: Mixtures**

**· Dangerous components:**

CAS: 7439-92-1 lead 37.0%

**4 First-aid measures**

**· Description of first aid measures**

**· General information:**

Take affected persons out of danger area and lay down.  
In case of irregular breathing or respiratory arrest provide artificial respiration.

**· After inhalation:** Supply fresh air.

**· After skin contact:** Generally the product does not irritate the skin.

**· After eye contact:**

Rinse opened eye for several minutes under running water.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**· After swallowing:** Rinse out mouth and then drink plenty of water.

**· Information for doctor:**

**· Most important symptoms and effects, both acute and delayed** No further relevant information available.

**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures**

**· Extinguishing media**

**· Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet

**· Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:

- Carbon monoxide
- Carbon dioxide
- Lead oxide

**· Advice for firefighters**

**· Protective equipment:** Wear self-contained respiratory protective device.

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· **Additional information**

Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures**

· **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
Wear protective clothing.  
Avoid formation of dust.  
Keep away from ignition sources.

· **Environmental precautions:** Do not allow product to reach sewage system or any water course.

· **Methods and material for containment and cleaning up:**

Pick up mechanically.  
Dispose of the collected material according to regulations.

· **Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

· **Handling:**

· **Precautions for safe handling**

Prevent formation of dust.  
Any deposit of dust which cannot be avoided must be regularly removed.  
Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**

Dust can combine with air to form an explosive mixture.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**CAS: 7440-31-5 tin**

PEL Long-term value: 2 mg/m<sup>3</sup>  
metal

REL Long-term value: 2 mg/m<sup>3</sup>

TLV Long-term value: 2\* mg/m<sup>3</sup>  
metal, \*inh. fraction

**CAS: 7439-92-1 lead**

PEL Long-term value: 0.05\* mg/m<sup>3</sup>  
\*see 29 CFR 1910.1025

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REL Long-term value: 0.05\* mg/m<sup>3</sup>

\*8-hr TWA ;See PocketGuide App.C

TLV Long-term value: 0.05\* mg/m<sup>3</sup>

\*and inorganic compds., as Pb; BEI, A3

· **Ingredients with biological limit values:**

**CAS: 7439-92-1 lead**

BEI 200 µg/L

Medium: blood

Time: not critical

Parameter: Lead

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labeling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Neoprene gloves

Leather gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment** No further relevant information available.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Solid material

Color: Silver-colored

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

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- **Change in condition**
  - Melting point/Melting range:** 183 °C (361.4 °F)
  - Boiling point/Boiling range:** Not applicable.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Auto igniting:** Not determined.
- **Decomposition temperature:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not applicable.
  - Upper:** Not applicable.
- **Oxidizing properties** No
- **Vapor pressure:** Not applicable.
- **Density at 20 °C (68 °F):** 8.4 g/cm³ (70.098 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not applicable.
  - Kinematic:** Not applicable.
- **Solvent content:**
  - VOC content:** 0.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**
  - CAS: 7439-92-1 lead**
  - Oral LD50 > 2000 mg/kg (Rat) (OECD Guideline 423)
  - Dermal LD50 > 2000 mg/kg (Rat) (OECD Guideline 402)
  - Inhalative LC50 (4h) > 5.05 mg/L (Rat) (OECD Guideline 403)
- **Primary irritant effect:**
  - on the skin:** Based on available data, the classification criteria are not met.
  - on the eye:** Based on available data, the classification criteria are not met.

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- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Causes damage to organs through prolonged or repeated exposure.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
CAS: 7439-92-1 lead: 2B
- **NTP (National Toxicology Program)**  
CAS: 7439-92-1 lead: R
- **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**  
CAS: 7439-92-1 lead  
LC50 (48h) 0.07356 mg/L (Daphnia) (Ceriodaphnia dubia)  
LC50 (96h) (static) 0.107 mg/L (fish) (Oncorhynchus mykiss)  
EC10 (static) 1.06 mg/L (Bacteria)  
24 h  
EC50 (72h) 0.0205 mg/L (algae) (OECD Guideline 201, Pseudokirchneriella subcapitata)  
NOEC (30d) (dynamic) 0.293 mg/L (fish) (Pimephales promelas)  
NOEC 0.1538 mg/L (Daphnia) (Alona rectangula)  
25 d  
NOEC (48h) (static) 0.034 mg/L (Daphnia)
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential**  
7439-92-1 lead 1,553 BCF
- **Mobility in soil** No further relevant information available.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR/RID/ADN, IMDG, IATA** UN3077
- **UN proper shipping name**
- **DOT** Environmentally hazardous substance, solid, n.o.s. (lead)
- **ADR/RID/ADN** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead)

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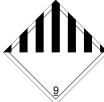

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· <b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead), MARINE POLLUTANT
· <b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead)
· <b>Transport hazard class(es)</b>	
· <b>DOT, ADR/RID/ADN, IMDG, IATA</b>	
 	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles
· <b>Label</b>	9
· <b>Packing group</b>	
· <b>DOT, ADR/RID/ADN, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: lead
· <b>Marine pollutant:</b>	Yes (DOT) Symbol (fish and tree)
· <b>Special marking (ADR/RID/ADN):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (LEAD), 9, III

**15 Regulatory information**

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	No further relevant information available.
· <b>SARA</b>	
· <b>Section 355 (extremely hazardous substances):</b>	None of the ingredients is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>	CAS: 7439-92-1 lead
· <b>TSCA (Toxic Substances Control Act) Inventory:</b>	All components have the value ACTIVE.
· <b>Hazardous Air Pollutants</b>	CAS: 7439-92-1 lead
· <b>Proposition 65</b>	
· <b>Chemicals known to cause cancer:</b>	CAS: 7439-92-1 lead
· <b>Chemicals known to cause reproductive toxicity for females:</b>	CAS: 7439-92-1 lead

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· **Chemicals known to cause reproductive toxicity for males:**

CAS: 7439-92-1 lead

· **Chemicals known to cause developmental toxicity:**

CAS: 7439-92-1 lead

· **New Jersey Right-to-Know List:**

All ingredients are listed.

· **New Jersey Special Hazardous Substance List:**

CAS: 7440-31-5 tin: F3

CAS: 7439-92-1 lead: CA, TE

· **Pennsylvania Right-to-Know List:**

All ingredients are listed.

· **Pennsylvania Special Hazardous Substance List:**

CAS: 7439-92-1 lead: E

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

CAS: 7439-92-1 lead: B2

· **TLV (Threshold Limit Value)**

CAS: 7439-92-1 lead: A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

· **Date of preparation / last revision 04/03/2024**

· **Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 1A: Reproductive toxicity – Category 1A

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1