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**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Trade Name** LINQALLOY™ SW-SAC305  
**Applications:** Solder wire for electrical or electronic applications. Industrial use only.  
**Advised Against** No further relevant information is available  
**Supplier Name** Caplinq Europe BV

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**SECTION 2. HAZARDS IDENTIFICATION**

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**PROPOSED CLASSIFICATION:** None of its original state

**HAZARD PICTOGRAMS:** No hazard symbol required

**HAZARD STATEMENTS:** No hazard statement required

**PRECAUTIONARY STATEMENTS**

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P301+P330+P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P351** Rinse cautiously with water for several minutes.

**P352** Wash with plenty of soap and water.

**P403+P233:** Store in a well-ventilated place. Keep the container tightly closed.

**P501:** Dispose of contents/container in accordance with all local, regional, national, and international regulations.

**POTENTIAL HEALTH EFFECTS**

**Eye Contact:** May cause mild eye irritation.

**Ingestion:** May be hazardous to the digestive system, cause vomiting and loss of appetite.

**Inhalation:** May cause respiratory tract irritation.

**Skin Contact:** Does not cause skin inflammation, except at high temperatures

Other hazard information:

SILVER: Chronic skin contact or ingestion of silver powder, salts, or fumes can result in a condition known as Argyria, with bluish pigmentation of the skin and eyes. Hot solder can burn eyes and skin. Fumes during soldering irritate eyes and may cause headaches and respiratory system irritation or damage

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**SECTION 3. INGREDIENT COMPOSITION**

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No.	Chemical Name	CAS Reg. No.	Proportion (%)
1	Sn	7440-31-5	Bal.
2	Ag	7440-22-4	3.0
3	Cu	7440-50-8	0.5

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## SECTION 4. FIRST-AID MEASURES

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### EYE CONTACT:

- Immediately flush with plenty of water for at least 15 min.
- Seek immediate medical attention.

### SKIN CONTACT:

- Immediately flush with plenty of water and soap for at least 15 min.
- Remove contaminated clothing, and use only laundered items of clothing.
- Consult the physician if irritation persists.

### INHALATION:

- Move the victim to fresh air.
- Administer oxygen if breathing is difficult.
- Get medical attention.

### INGESTION:

- Do not administer anything orally if the patient is on the verge of losing consciousness, already unconscious, or experiencing convulsions.
- Do not induce vomiting.
- Get medical attention immediately.

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## SECTION 5. FIRE FIGHTING MEASURES

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### EXTINGUISHING MEDIA

- Clean agent fire extinguisher, dry powder, carbon dioxide, or foam. Do not use water on the molten alloy.

### HAZARD RELEASED FROM CHEMICAL

- Carbon dioxide, carbon monoxide, metal oxides

### PROTECTIVE EQUIPEMENT

- Use only approved breathing apparatus, gloves, and firefighting gear.

### PRECAUTIONARY ACTIONS

- Do not use a water jet. Do not breathe fumes.
- Only attempt to fight the fire with suitable protective equipment.
- Do not dispose of fire-fighting water in the environment.

### ADDITIONAL INFORMATION

- Massive metal is non-flammable. Brazing flames can ignite combustibles.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### PRECAUTIONARY ACTIONS

- Avoid breathing vapors, mist, or gas. See Section 8 for personal precautions.

### ENVIRONMENTAL PRECAUTIONS

- Keep away from drains, surfaces, and groundwater.

**CONTAINMENT ACTIONS**

- Place into the properly labeled waste container and send for disposal according to federal, state, and local regulations.

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**SECTION 7. HANDLING AND STORAGE**

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**HANDLING**

- This product is for industrial use only. Wash hands after use.
- Do not take it internally. Avoid contact with eyes, skin, and clothing.
- Avoid inhalation of soldering fumes during the process.
- Ensure the availability of suitable protective and ventilation equipment.

**STORAGE**

- Store in a well-ventilated (air-conditioned room temperature) & dry place away from excessive heat, sunlight, and humidity. Ensure that the storage and usage area is strictly designated as a non-smoking zone.

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**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**EXPOSURE LIMITS:**

No.	Components	Standards*	Reference
1	PEL	Tin - 2.0 mg/m <sup>3</sup> Silver - 0.01 mg/m <sup>3</sup> Copper - 1 mg/m <sup>3</sup>	OSHA, ACGIH
2	TLV	Tin - 2.0 mg/m <sup>3</sup> Silver - 0.1 mg/m <sup>3</sup> Copper - 1 mg/m <sup>3</sup>	OSHA, ACGIH

**VENTILATION:**

Use general or local exhaust ventilation to meet exposure limit requirements.

**PERSONAL PROTECTION:**

- Respiratory Protection: Wear an approved respirator/mask during the process
- Eye Protection: Wear approved safety glasses or goggles with unperforated side shields. Wear equipment appropriate for soldering operation.
- Skin Protection: Wear chemically impervious gloves. Wear equipment appropriate for soldering.
- Other: An emergency eyewash station should be available in case of accidental eye contact.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Silver-gray metal
<b>Odor</b>	No odor
<b>Melting Points:</b>	217°C
<b>Vapor Pressure (mm Hg at 20°C):</b>	No Data
<b>Solubility in water (% by weight):</b>	Not Soluble in water

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## SECTION 10. STABILITY & REACTIVITY

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**Chemical Stability:** Stable under ordinary conditions of use and storage.

**Conditions To Avoid:** Moisture, and excessive heat during storage.

**Decompositions Products:** Carbon Dioxide, Carbon Monoxide, Metal Oxide.

**Hazardous Polymerization:** Will not occur

**Incompatibility:** Strong acids and alkalis, oxidizing agents.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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**Exposure Limits:** See Section 8 for ingredients.

Lead can accumulate in bone and body organs, and elimination from the body is slow. Medical examinations are advised for persons repeatedly exposed to levels above the exposure limit for lead. Lead is classified as a Group 2B carcinogen by the International Agency for Research on Cancer (IARC) and the US Environment Protection Agency (EPA). Women of childbearing age should avoid chronic exposure to lead because of the possible effects on reproduction and potential injury to a developing fetus.

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## SECTION 12. ECOLOGICAL INFORMATION

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**Mobility:** No information found

**Bioaccumulation:** No information found

**Biodegradability:** No information found

**Aquatic Toxicity:** Keep out of the waterway.

**Environmental Toxicity:** No information found

**Ecotoxicity:** No information is available

**Other adverse effects:** No information is available; Keep out of groundwater, watercourse, or sewage system.

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## SECTION 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal Method:** Waste / Solder can be reclaimed.

Disposal of waste needs to be carried out at the city, state, or federally permitted disposal facility. Handle following applicable regulations and/or local authorities.

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## SECTION 14. TRANSPORT INFORMATION

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### Land transport ADR/RID (Cross-border)

ADR, RID Class: Not regulated

### Maritime transport IMDG

IMDG Class: Not regulated

### Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: Not regulated

**Special precautions:** Always transport in closed containers that are upright and secure. Keep away from direct sunlight. Avoid contact with water. Avoid overturn, fall-down, and any other damage on loading and transporting.

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations, and rules relating to the transportation of the material.*

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**SECTION 15. REGULATORY INFORMATION**

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<b>TSCA 8(b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory
<b>TSCA 12(b) Export Notification:</b>	None
<b>Regulated Chemicals:</b>	Silver is regulated by SARA 313, CA Prop 65 (USA)
<b>European Regulation:</b>	According to the EEC Directive 91/155/EEC, this product is not a harmful product.

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**SECTION 16. OTHER INFORMATION**

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The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither CAPLINQ Corporation nor CAPLINQ Europe BV accept any liability arising out of the use of the information provided here or the use, application, or processing of the product described herein.

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**COMMON ABBREVIATIONS AND ACRONYMS:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

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

NOEC: No Observed Effect Concentration

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value