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

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**Trade Name** LINQALLOY™ SP-SAC307  
**Applications:** Solder Paste for Surface Mount Technology  
**Advised Against** No further relevant information available  
**Supplier Name** Caplinq Europe BV

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**SECTION 2. HAZARDS IDENTIFICATION**

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**PROPOSED CLASSIFICATION:**

Irritant  
Target Organ Toxicity [Category 3]  
Reproductive Toxicity [Category 1]

**HAZARD PICTOGRAMS:****HAZARD STATEMENTS**

**P302** Harmful if swallowed  
**P315/320/ H317/19** Irritate to eyes and skin  
**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled

**PRECAUTIONARY STATEMENTS**

**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P338** Removes contact lenses if present and easy to do. Continue rinsing.  
**P351/P302/P352/P264** Rinse cautiously with water for several minutes.  
**P352** Wash with plenty of soap and water.  
**P261/P304/P341** Avoid breathing dust/fume/gas/mist/vapors/spray.If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
**P305/P351/P338** If contact to eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P501** Dispose of contents/container in accordance with local/regional/national/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:** May cause mild skin inflammation.  
**Toxicity:** LD<sub>50</sub>(oral) >5000 mg/kg.

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**SECTION 3. INGREDIENT COMPOSITION**

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No.	Components	CAS Reg. No.	Proportion (%)
1	Sn	7440-31-5	99.05
2	Ag	7440-22-4	0.38
3	Cu	7440-50-8	0.72
4	Modified Rosin	8050-09-7	3.0-4.5
5	Confidential component	*	2.0-6.0

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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.
- Please ensure to wear protective glasses during a high-temperature operation.

**SKIN CONTACT:**

- Immediately flush with plenty of water for at least 15 min.
- Please ensure to wear protective glasses during a high-temperature operation.

**INHALATION:**

- Move 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**

- This is a non-flammable compound.
- Clean agent fire extinguisher, dry powder, carbon dioxide, or foam.

**PROTECTIVE EQUIPMENT**

- Use only approved breathing apparatus, gloves and fire fighting gear.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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**LEAK/SPILL**

- In case of a leakage, use sand, earth, or inert materials to contain and control it
- Report as per regulatory requirements.

**ENVIRONMENTAL PRECAUTIONS**

- Keep away from drain, surface and ground water.

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**SECTION 7. HANDLING AND STORAGE**

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**HANDLING**

- Ensure the availability of suitable protective and ventilation equipment.
- Minimize skin and eye exposure, and prevent inhalation of vapors. Do not stay in contact for an extended period.

**STORAGE**

- Store in a cool (air-condition 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:**

Good ventilation, controlled temperature room and dry handling.

**VENTILATION:**

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

**PERSONAL PROTECTION:**

- Respiratory Protection: Organic vapor canister or canister respiratory protector should be used when necessary.
- Eye/Skin Protection: Chemical safety splash goggles, eyewash equipment, and gloves (general rubber or lined) are recommended.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Solid gray paste
<b>Odor</b>	slight odor
<b>Ph:</b>	Not applicable
<b>Melting point</b>	219°C
<b>Initial Boiling Point/Boiling Ranges:</b>	Not applicable
<b>Vapor pressure(mm Hg at 20 °C)</b>	Not applicable
<b>Flash Point:</b>	>140°C
<b>Specific Gravity:</b>	1.5–1.6
<b>Vapour Pressure (Mm Of Hg At 25°C):</b>	Not applicable
<b>Solubility:</b>	Not soluble in water
<b>Proportion (water = 1 at 25 °C)</b>	>7
<b>Vapour Density (Air = 1):</b>	Not applicable
<b>Evaporation Rate (Butyl Acetate = 1):</b>	Not applicable
<b>rate of volatilization(butyl acetate = 1)</b>	<0.1
<b>Volatile Volume percent</b>	<1%
<b>W/O coefficient of distribution</b>	Not established

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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:** React with oxidizing materials

**Decompositions Products:** None.

**Hazardous Polymerization:** No hazard at room temperature.

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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**Toxicity Data:** Estimated oral exposure limit LD<sub>50</sub>(oral) >5000 mg/kg. Use inhalation aid if exposed.

**Carcinogenicity:** No information found

**Reproductive Effect:** May effect reproductive system

**Chronic Effects:** Nervous system digestive system, gastrointestinal tract, upper respiratory tract

**Target Organs:** Kidneys, lungs, spleen, brain, skin, eyes, cornea, thyroid gland. Long-term exposure may cause organ failure.

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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:** No information found

**Environmental Toxicity:** Do not allow undiluted product to reach ground water, water supply system or sewage system

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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Disposal of waste needs to be carried out at the city, state, or federally permitted disposal facility. Handle in accordance with 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: Non-ADR restricted material

**Maritime transport IMDG**

IMDG Class: No information available

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

ICAO/IATA Class: No information available

**USA [DOT] and Canada [TDG]**

DOT/TDG Class: Non-DOT and Non-TDG restricted material

*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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No information available

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**SECTION 16. OTHER INFORMATION**

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**COMMON 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

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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NE: Not Established