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## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	LINQALLOY <sup>™</sup> SP-SAC305	
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

### PROPOSED CLASSIFICATION: Non-Irritant

#### HAZARD PICTOGRAMS:



HAZARD STATEMENTS P301 Harmful if swallowed P305 Irritate to eyes

#### **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 Rinse cautiously with water for several minutes.
P352 Wash with plenty of soap and water.

#### 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

## SECTION 3. INGREDIENT COMPOSITION

No.	Components	CAS Reg. No.	Proportion (%)
Alloy breakdowns: (Homogeneous mixture)			
1	Sn	7440-31-5	Bal.



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2	Ag	7440-22-4	3.0±0.2
3	Cu	7440-50-8	0.7±0.2
Flux Paste: (Uniform mixture)			9.70±0.30
1	Hydrogenated Rosin	65997-06-0	2.0-8.5
2	Resin	65997-05-9	2.0-6.5
3	Activator	68937-72-4	1.5-3.8

# SECTION 4. FIRST AID MEASURES

### **EYE CONTACT:**

- Immediately flush with plenty of water for at least 15 min.
- Please ensure to wear protective glasses during a high-temperature operation. If contacted during a high temperature operation, please refer immediately for hospital treatment.

### SKIN CONTACT:

- Immediately flush with plenty of water for at least 15 min.
- If contacted during a high temperature operation, immediately apply scald ointment for light injuries, otherwise please refer immediately for hospital treatment.

### 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.

# SECTION 5. FIRE FIGHTING MEASURES

### **EXTINGUISHING MEDIA**

- Clean agent fire extinguisher, dry powder, carbon dioxide, or foam.
- Special fire fighting protective gears or suit.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### LEAK/SPILL

- In case of a leakage, use sand, earth, or inert materials to contain and control it. Flush with plenty of water to clean the spillage area.
- Report as per regulatory requirements.

## SECTION 7. HANDLING AND STORAGE



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#### HANDLING

- Ensure the availability of suitable protective and ventilation equipment. Wash hands thoroughly after getting in contact.
- Keep out of reach of children. Avoid breathing fumes and dust. Do not eat, drink, or smoke when using this
  product.
- Minimize 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.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **EXPOSURE LIMITS:**

No	Components	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)	Reference
1	Tin [Sn]	2 mg/m <sup>3</sup>	Not established	OSHA, ACGIH
2	Silver [Ag] (Metal, metal dust, fumes, mist, and compounds)	0.01 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup>	Not established	OSHA, ACGIH
3	Copper [Cu] (dust and mist)	1.0 mg/m <sup>3</sup>	Not established	OSHA, ACGIH

### **VENTILATION:**

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

### **PERSONAL PROTECTION:**

- Respiratory Protection: Wear a mask. 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.
- Hand protection: Wear a heat resistant gloves

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray viscous liquid
Odor	Mild
Ph:	Not Applicable
Initial Melting Point/Melting Ranges:	217
Flash Point:	Not Applicable
Specific Gravity (g/ $cm^3$ ):	7.4
Vapour Pressure (Mm Of Hg At 25°c):	Not applicable
Solubility:	Not soluble in water
Vapour Density (Air = 1):	Not applicable



## SECTION 10. STABILITY & REACTIVITY

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

Conditions To Avoid: Not applicable.

Incompatible Substances: Mild reaction to strong oxidants, strong acids, strong bases or moisture.

**Decomposition Products:** No hazardous decomposition at normal circumstances, except above melting point **Hazardous Polymerization:** No hazard at room temperature.

## SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data: LD<sub>50</sub>(oral) not applicable Inhalation: Vapour may irritate respiratory system or lung and cause allergies or dermatitis Ingestion: May cause stomach pain or vomiting Carcinogenicity: No information found Reproductive Effect: No information found Chronic Effects: No information found Target Organs: No information found

## SECTION 12. ECOLOGICAL INFORMATION

Mobility: No Information found Bioaccumulation: No information found Biodegradability: No information found Aquatic Toxicity: No information found Environmental Toxicity: No information found

### SECTION 13. DISPOSAL CONSIDERATIONS

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.

### SECTION 14. TRANSPORT INFORMATION

Land transport ADR/RID (Cross-border)<br/>ADR, RID Class:No information availableMaritime transport IMDG<br/>IMDG Class:No information availableAir transport ICAO-TI and IATA-DGR<br/>ICAO/IATA Class:No information available

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.

### SECTION 15. REGULATORY INFORMATION

**RoHS** [Restriction of Hazardous Substances Directive] This product does not the ten substances: lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP).

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**TSCA** [Toxic Substances Control Act, USA] All substances that are listed according to TSCA regulations.

## SECTION 16. OTHER INFORMATION

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 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