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SAFETY DATA SHEET - LINQALLOY™ Sn42Bi57Ag1

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Linqalloy Sn42Bi57Ag1
SUPPLIER NAME : Caplinq Europe BV

| | |
|---|---|
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|---|---|

MSDS NUMBER : Linqalloy Sn42Bi57Ag1 - #25221
CHEMICAL NAME : LINQALLOY™ Sn42Bi57Ag1 | Eutectic solder paste
CAS NUMBER : Not applicable
DOT HAZARD CLASS : Not applicable
TRADE NAMES : Linqalloy Sn42Bi57Ag1

SECTION 2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eye, Inhalation, Skin, Ingestion.

Signal Word: Warning. Hazard statements

H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

Precautionary statement(s)

P233: Keep container tightly closed.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

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

P362: Take off contaminated clothing and wash before reuse.

P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + 341 IF INHALED: If breathing is difficult, remove patient to fresh air and keep at rest in a position comfortable for breathing.

P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins).

Potential Health Effects

Eye Contact: Contact with material at room temperature or fume from material at typical re-flow temperatures over 100°C may cause serious eye damage.

Ingestion: This product contains metal alloy powders and organic chemicals. May be harmful if swallowed.



Inhalation: Vapors or fumes from this material at typical re-flow temperatures over 100°C may cause local irritation to the respiratory system. May be harmful if inhaled.

Skin Contact: May cause skin irritation.

Chronic:

Silver: Chronic skin contact or ingestion of silver powder, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes.

Tin: Has been shown to increase incidence of sarcoma in animal tests.

Copper: Overexposure to fumes of copper may cause metal fume fever (chills, muscle aches, nausea, fever; dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair.

WARNING: This product contains a chemical known to cause cancer and/or birth defects (or other reproductive harm). (trace levels of lead)

SECTION 3. INGREDIENT COMPOSITION

| Name | Composition | CAS# | Content | OSHA PEL mg/m3 | ACGIH TLV mg/m3 |
|-------|-------------------------------------|------------|-----------|-------------------|--------------------|
| Flux | Rosin | 8050-09-7 | 3.0 – 5.0 | N.A | N.A |
| | Organic acid | 68937-72-4 | 2.0 – 5.0 | N.A | N.A |
| | Tripropylene glycol monobutyl ether | 55934-93-5 | 4.0 – 7.0 | N.A | N.A |
| | Ethylene bis-stearamide | 110-30-5 | 0.3 – 1.0 | N.A | N.A |
| Metal | Tin | 7440-31-5 | 42±1 | 0.1 | 1.0 |
| | Silver | 7440-22-4 | 1±0.2 | 0.01 | 0.1 |
| | Bismuth | 7440-69-9 | 57±1 | 0.01 | 0.1 |
| | Copper | 7440-50-8 | - | 0.01 | 0.1 |

Does not contain any reportable Substances of Very High Concern (SVHC)

SECTION 4. FIRST AID MEASURES

INHALATION:

Remove patient into fresh air and seek medical advice

SKIN:

Wash immediately with plenty of water. Remove contaminated clothing Immediately.

EYE:

Rinse immediately with plenty of water and seek medical advice.

INGESTION:

Seek medical advice immediately and show container or label.

In all cases of doubt, or when symptoms persist, seek medical attention.



SECTION 5. FIRE FIGHTING MEASURES

HAZARDOUS DECOMPOSITION / COMBUSTION PRODUCTS

Carbon monoxides and Carbon Dioxides

SUITABLE EXTINGUISHING MEDIA

Use extinguishing methods that are suitable for the surrounding area.

UNSUITABLE EXTINGUISHING MEDIA

Unknown

SPECIAL FIRE FIGHTING PROCEDURES:

None

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Ensure adequate ventilation.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Do not allow to enter drains or water courses.

Methods for disposal:

See Section 13

SECTION 7. HANDLING AND STORAGE

HANDLING:

No particular measure is required

STORAGE:

Keep container tightly closed and store in a cool and ventilated place and away from children.

OTHER INFORMATION:

No further relevant information is available.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

GENERAL:

Avoid contact with the eyes and skin.

Work in a well-ventilated area.

Pregnant women must avoid inhaling and contact with skin

The usual precautionary measures are to be adhered when handling chemicals.

RESPIRATORY:

No measure required under normal use.

HAND:

Wear suitable protective gloves.

EYE:

Wear safety glasses or a face shield.



SKIN AND BODY:

Wear suitable protective work clothing.

OTHER INFORMATION:

Emergency-shower and facilities for rinsing eyes must be accessible. Launder clothes before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR

Gray

ODOR

Aromatic

FLASH POINT

Not determined

BOILING POINT

Not determined

DANGER OF EXPLOSION:

Not an explosion hazard.

BOILING POINT:

138°C

SECTION 10. STABILITY & REACTIVITY

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids/ alkalis / oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Solvent evaporation, carbon dioxide, carbon monoxide, aldehydes and carboxylic acids

HAZARDOUS POLYMERIZATION:

Will not occur. No further relevant information available.

CONDITIONS TO AVOID:

High temperatures

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION:

Sensitization through skin contact is possible. Irritates Skin

EYE IRRITATION:

Irritates Eyes

SECTION 12. ECOLOGICAL INFORMATION

Not allowed into the sewers, surface water and groundwater.

SECTION 13. DISPOSAL CONSIDERATIONS

Pick up mechanically and put into a container for disposal. Dispose of contents and container according to local regulation. Incineration or landfill in accordance with federal, state and local regulations.



SECTION 14. TRANSPORT INFORMATION

| | |
|--|--|
| UN-Number: | |
| ADR,RID,ADN, IMDG, IATA | Not regulated. |
| UN proper shipping name: | |
| ADR,RID,ADN, IMDG, IATA | Not regulated. |
| Transport hazard class(es): | |
| ADR,RID,ADN, IMDG, IATA | Not applicable. |
| Packing group: | |
| ADR,RID,ADN, IMDG, IATA | Not applicable. |
| Environmental hazards: | Not applicable. |
| Special precautions for user: | Not applicable. |
| Transport/Additional information: | Not dangerous according to the above specifications. |

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

TSCA Statue: All components of this product are listed on the TSCA inventory of existing chemical Substances

Risk Phrases: XI

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

Safety Phrases:

S20/21: When using do not eat, drink or smoke.

S23: Do not breathe fumes/gas/vapor/spray.

S24/25: Avoid contact with skin and eyes.

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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SDS Revision Date: 25 February 2021

