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SAFETY DATA SHEET - LINQALLOY™ Bi58Sn42

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Linqalloy Bi58Sn42
SUPPLIER NAME : Caplinq Europe BV

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MSDS NUMBER : Linqalloy Bi58Sn42 - #17521
CHEMICAL NAME : LINQALLOY™ Bi58Sn42 | Eutectic Pb free Solder spheres
CAS NUMBER : Not applicable
DOT HAZARD CLASS : Not applicable
TRADE NAMES : Linqalloy Bi58Sn42

SECTION 2. HAZARDS IDENTIFICATION

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

Signal Word: Warning. Hazard statements

Harmful to the aquatic life
Harmful to ingest

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 victim 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: May be hazardous and cause eye irritation, tearing and reddening
Ingestion: May be hazardous to the digestive system, cause abdominal discomfort, nausea, vomiting and diarrhea.
Inhalation: May cause respiratory irritation, dizziness, fatigue, nausea and headache
Skin Contact: May cause skin inflammation.
Chronic: No relevant documentation

SECTION 3. INGREDIENT COMPOSITION

Name	CAS#	Content	Chemical code	Atomic Number
Tin	7440-31-5	42±1	Sn	50
Bismuth	7440-31-6	58±1	Bi	83

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. If breathing is difficult give artificial respiration or administer oxygen

SKIN:

Wash immediately with plenty of water. Remove contaminated clothing. Seek medical advice if you develop a skin irritation

EYE:

Rinse immediately with plenty of water, remove contact lenses and seek medical advice.

INGESTION:

Induce vomit immediately. Seek medical advice immediately and show container or label.

In all cases of doubt, or when symptoms persist, seek medical attention. Most important side effects are skin irritation and excessive exposure to fumes that can cause pulmonary edema.

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS

Limits not established. Massive metal is not flammable; however, dust or powder may be flammable.

SUITABLE EXTINGUISHING MEDIA

Use extinguishing method that is suitable for the surroundings. Do not add water to molten metal.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Ensure adequate ventilation. Avoid inhaling soldering exhaust gas or dust.

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

Do not allow to enter drains or water courses. Do not spread

Methods for cleanup:

Pump air or spray water



SECTION 7. HANDLING AND STORAGE

HANDLING:

Only dry metals should be added to molten bath. If working with molten metals, or exposed to fume or dust, use appropriate personal protective equipment.

STORAGE:

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

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

GENERAL:

Provide adequate mechanical exhaust.

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:

Wear a HIOSH approved respirator to avoid over exposure

HAND:

Wear suitable protective gloves.

EYE:

For handling: wear safety glasses with side shields.

For melting, wear goggles and face shields. Don't wear contact lenses.

SKIN AND BODY:

Wear suitable protective work clothing. Inspect gloves before using

MEDICAL STUFF PROTECTION:

Wear gas masks, oxygen cylinders and protective clothing

OTHER INFORMATION:

Emergency-shower and facilities for rinsing eyes must be accessible. Launder clothes before reuse. Forbid eating, drinking, smoking and make up in the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Silver-white metal

ODOR: Odorless

FLASH POINT: Not applicable

BOILING POINT: Not applicable

DANGER OF EXPLOSION: Not an explosion hazard.

MELTING POINT: 138°C



SECTION 10. STABILITY & REACTIVITY

SOLUBILITY: Insoluble in water

DENSITY: 8.31 g/cm³

CHEMICAL STABILITY: Stable under room temperature and pressure

MATERIALS TO AVOID: Avoid contact with oxidizing agents and mineral acids

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION:

Sensitization through skin contact is possible. Irritates Skin

EYE IRRITATION:

Irritates Eyes

LUNG IRRITATION:

May cause damage to respiratory system if inhaled over long exposure.

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.

UN "Model Regulation":

Void

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:

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

R43: May cause sensitisation 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

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SDS Revision Date: 15 May 2021

