



## Safety Data Sheet according to WHS Regulations

Date of issue: 31.10.2024

Version number 5.9

Revision: 31.10.2024

### 1 Identification

- **Other means of identification**
- **Trade name:** Loetlegierung Sn63Pb37  
Loetlegierung Sn60Pb40  
Loetlegierung Pb50Sn50  
Loetlegierung Pb60Sn40  
Loetlegierung Pb70Sn30  
Loetlegierung Pb92Sn8  
Loetlegierung Pb95Sn5
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Technical function** soldering
- **Application of the substance / the mixture** Brazing alloy
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Stannol GmbH & Co. KG  
Haberstrasse 24  
D-42551 Velbert  
  
+49 (0) 2051 3120 332  
sdb@stannol.de
- **Further information obtainable from:** Product Safety Department
- **Emergency telephone number:** 8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**

Reproductive toxicity – Category 1A	H360-H362 May damage fertility or the unborn child. May cause harm to breast-fed children.
Specific target organ toxicity (repeated exposure) – Category 1	H372 Causes damage to the central nervous system, the kidneys and the blood through prolonged or repeated exposure.
- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Lead (35 - 98 %)
- **Hazard statements**  
May damage fertility or the unborn child. May cause harm to breast-fed children.  
Causes damage to the central nervous system, the kidneys and the blood through prolonged or repeated exposure.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid contact during pregnancy/while nursing.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves / eye protection.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.



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- **Other hazards**

metals:

After working with the product and before eating, drinking or smoking, wash your hands with soap and water.

Do not heat above 500 ° C.

May not get into the hands of children.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7440-31-5 tin

3 - 65%

EINECS: 231-141-8

CAS: 7439-92-1 Lead

35 - 98%

EINECS: 231-100-4 Reproductive toxicity – Category 1A, H360-H362; Specific target organ toxicity (repeated exposure) – Category 1, H372

- **SVHC**

CAS: 7439-92-1 Lead

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

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Wear protective clothing.

- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 6.1 C
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Appropriate engineering controls** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
**CAS: 7440-31-5 tin**  
WES (Australia) Long-term value: 2 mg/m<sup>3</sup>  
**CAS: 7439-92-1 Lead**  
WES (Australia) Long-term value: 0.05 mg/m<sup>3</sup>  
BOELV (EU) Long-term value: 0.15 mg/m<sup>3</sup>  
as Pb
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter P2
- **Protection of hands:**



Protective gloves

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Leather gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:** Safety glasses

### 9 Physical and Chemical Properties

• **General Information**

• **Appearance:**

• **Form:** Solid

• **Colour:** Grey

• **Odour:** Odourless

• **Odour threshold:** Not determined.

• **pH-value:** Not applicable.

• **Change in condition**

• **Melting point/freezing point:** Undetermined.

• **Initial boiling point and boiling range:** Undetermined.

• **Flash point:** Not applicable.

• **Flammability** Not determined.

• **Decomposition temperature:** Not determined.

• **Ignition temperature:** Product is not selfigniting.

• **Explosive properties:** Product does not present an explosion hazard.

• **Explosion limits:**

• **Lower:** Not determined.

• **Upper:** Not determined.

• **Vapour pressure:** Not applicable.

• **Density:** Not determined.

• **Relative density** Not determined.

• **Vapour density** Not applicable.

• **Evaporation rate** Not applicable.

• **Solubility in / Miscibility with**

• **water:** Insoluble.

• **Partition coefficient: n-octanol/water:** Not determined.

• **Viscosity:**

• **Dynamic:** Not applicable.

• **Kinematic:** Not applicable.

• **Solvent content:**

• **Solids content:** 100.0 %

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- Other information
- Particle characteristics Not determined.
- Physical state Solid

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility or the unborn child. May cause harm to breast-fed children.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Causes damage to the central nervous system, the kidneys and the blood through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- **UN-Number**
- **ADG, ADN, IMDG, IATA** not regulated
- **UN proper shipping name**
- **ADG, ADN, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **ADG, ADN, IMDG, IATA**
- **Class** not regulated
- **Packing group**
- **ADG, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals**  
All ingredients are listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons**  
None of the ingredients is listed.
- **Australia: Priority Existing Chemicals**  
None of the ingredients is listed.
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger

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- **Hazard-determining components of labelling:**

- Lead (35 - 98 %)

- **Hazard statements**

- May damage fertility or the unborn child. May cause harm to breast-fed children.

- Causes damage to the central nervous system, the kidneys and the blood through prolonged or repeated exposure.

- **Precautionary statements**

- Obtain special instructions before use.

- Do not breathe dust/fume/gas/mist/vapours/spray.

- Avoid contact during pregnancy/while nursing.

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

- Wear protective gloves / eye protection.

- IF exposed or concerned: Get medical advice/attention.

- Get medical advice/attention if you feel unwell.

- Store locked up.

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **National regulations:**

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

- CAS: 7439-92-1 Lead

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H360 May damage fertility or the unborn child.

- H362 May cause harm to breast-fed children.

- H372 Causes damage to organs through prolonged or repeated exposure.

- **Department issuing SDS:** Product Safety Department

- **Contact:** Hr. Dörr

- **Abbreviations and acronyms:**

- 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

- 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)

- PBT: Persistent, Bioaccumulative and Toxic

- SVHC: Substances of Very High Concern

- vPvB: very Persistent and very Bioaccumulative

- Reproductive toxicity – Category 1A: Reproductive toxicity – Category 1A

- Specific target organ toxicity (repeated exposure) – Category 1: Specific target organ toxicity (repeated exposure) – Category 1

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