

EU - Safety Data Sheet according to 91/155/EU

Trade name: Solder Sn60Pb40

Date of issue: 25.02.2003

Revised on: 21.09.06

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1. Chemical Identification

Trade name: **Solder S-Sn60Pb40 Stratoloy, Stannoloy, Stannopure, WSL3**

Manufacturer: Stannol GmbH
Oskarstr.3-7
42283 Wuppertal
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2. Composition/Information of Ingredients

Chemical characteristics: Tin-Lead Alloy

Ingredients

Content	CAS-NR.	Symbols	Risk-Phrases	Chemical name
Remainder	7439-92-1			Lead
59,5 – 60,5%	7440-31-5			Tin

3. Hazards Identification:

Not a hazardous composition according to current legislation, nevertheless the following items must be regarded.

4. First Aid Measures:

General : If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial resuscitation or give oxygen by mask
Inhalation : Remove patient to fresh air. If irritation persists, obtain medical attention.
Skin Contact : If any skin irritation develops seek medical attention
Eye Contact: Flush **immediately** with plenty of water. In cases where spitting flux has entered the eye seek medical attention.
Ingestion: seek medical attention.
Hints for doctors : Inhalation of the flux fumes given off at soldering temperatures will irritate the nose, throat and respiratory system. Repeated or prolonged exposure to flux fumes may cause shortness of breath and cough..
Treatment: Decontamination, symptomatic treatment.

5. Fire Fighting Measures

Extinguishing Media: This material is not flammable
Use extinguishing media appropriate to surrounding fire conditions.
Special Fire-fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Emits toxic fumes under fire conditions.

6. Accidental Release Measures:

.. Pick up and place in appropriate container

7. Handling and Storage:

The product should be stored in a dry area. When molten solder is in use, avoid temperatures above 500°C

8.Exposure Controls / Personal Protection:

Local exhaust and control of process conditions are suitable methods when dust, fumes and vapours are developed. Where engineering controls and work practises are not effective in controlling exposure then suitable respiratory protective equipment should be used.

Biological limited value: Lead-concentration; blood 700µl, Women below 45 years 300 µl

TLV of TRGS 900 see Capitel 2

Substance	CAS-NR	ml/m ³ (ppm)	mg/m ³	Art
Lead	7439-92-1		0,1	MAK (DFG)
Tin	7440-31-5		2	MAK (NL)

Respiratory Protection: Necessary if there is a risk of exposure to of fumes

Hand Protection: The use of gloves is recommended.

Eye Protection: Operators should wear goggles or a face shield when handling liquid solder or at any other time where there is a risk of splashing

Do not eat, drink or smoke. Before breaks and after work wash hands carefully.

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9. Physical and Chemical Properties

Appearance : Form: solid
Colour: metallic Odour: odourless

Melting Point: >180°C

Vapour Pressure: Not measurable

Specific Gravity: 8,2 –9.3

Vapour Density:

10. Stability and Reactivity:

Incompatibilities Strong oxidising agents, strong acids and bases.
Hazardous combustion or decomposition products: No thermal decomposition under conditions of use.
When the product is converted into dust, formation of lead oxide is possible.

11. Toxicological Information

Acute intoxication by skin contact or ingestion is improbable. There is a risk on high doses. Long term effects occur on inhalation of metal vapours (melts > 500°C) or metal dust.
Inhalation of fumes can irritate the respiratory tract and eyes..

All following items refer to pure lead

Acute Toxicity

Type	Value in mg/Kg	Form	Species
LD.LO	160	oral	pigeon
LD.LO	1000	ip	rat

LD.LO (oral, pigeon): 160 mg/kg; TD.LO (oral, woman): 450 mg/kg (damage to nervous system); LD.LO (ip., Rat): 1000 mg/kg; TC.LO (inhal., human): 10 mg/m³ ;

12. Ecological Information:

Heavy metals and their compounds are not biodegradable

13. Disposal Considerations:

Contact a licensed professional waste disposal service to dispose of this material.
Observe all federal, state and local environmental regulations.

14. Transport Information:

GGVS/ADR/RID: The product is not classified as hazardous for transport

15. Regulatory Information:

Dangerous Substances Directive 67/548/EEC as amended by Directive 92/32/EEC

Dangerous Preparations Directive 88/379/EEC as amended by Directive 90/492/EEC

Directive 80/1107/EEC on the protection of workers from the risk related to exposure to physical, chemical and biological agents at work

16. Other Information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide..

Safety data-sheet is written by:

Stannol GmbH

Contact-person:

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