

## SCHEDA DI SICUREZZA

Prodotto: **Filo di stagno autosaldante**

Articolo: **K 3798**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name or designation of the mixture	Löt draht Arax / S321 Sn/Pb Metall-Legierungen
Synonyms	Lötzinn Pb60Sn40 * Lötzinn Pb65Sn35 * Lötzinn Pb70Sn30 * Lötzinn Pb75Sn25 * Lötzinn Pb88Sn12 * Lötzinn Pb92Sn8 * Lötzinn Pb95Sn5 * Lötzinn Sn50Pb50 * Lötzinn Sn60Pb40 * Lötzinn Sn63Pb37 * Lötzinn Sn64Pb36
Issue date	10-December-2012
Version number	1.1
Revision date	19-September-2013
Supersedes date	09-September-2013
Product use	Consumer use

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	soft soldering
Uses advised against	Not available.

#### 1.3. Details of the supplier of the safety data sheet

Company name	STANNOL GmbH
Address	Oskarstr. 3-7 42283 Wuppertal Germany
Contact person	Dr. Sven Mönninghoff
Telephone number	+49 (0) 202 585-129
Fax	+49 (0) 202 585 155
e-mail	sven.moeninghoff@stannol.de
Contact person	HSE-BBS@bayer.com
Emergency telephone number	+49 (0) 202 585 129 (8:00 a.m. – 4:00 p.m. (MET))

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Remark: The classification for this article has been derived with the use of the regulations for mixtures.

#### Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Prolonged exposure may cause chronic effects.
Main symptoms	Not available.

#### 2.2. Label elements

##### Label according to Directive 67/548/EEC or 1999/45/EC as amended

EC number	-
EC label	Not available.
R-phrases	Not available.
S-phrases	Not available.
Authorisation number	Not available.

Supplemental label information Remark: As an article, this product has not to be labelled pursuant to current EU-regulation.

2.3. Other hazards Not assigned.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Lead Metal (general- and high purity grade)	35.5 - 95.5	7439-92-1 231-100-4	-	082-001-00-6	#
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				
Tin	4.5 - 64.5	7440-31-5 231-141-8	-	-	#
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R-phrases is displayed in Section 16.

## SECTION 4: First aid measures

**General information** Not available.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

**Eye contact** Remove contact lenses, if present and easy to do. Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** Water, CO2 or Foam

**5.2. Special hazards arising from the substance or mixture** The product itself does not burn. Hot melt

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Special fire fighting procedures** Use water spray to cool unopened containers. Water runoff can cause environmental damage.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up.

**For emergency responders** Not available.

**6.2. Environmental precautions** Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** The product is immiscible with water and will spread on the water surface. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13. Remove material, as much as possible, using mechanical equipment.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Use only with adequate ventilation. Avoid inhalation of vapours and aerosol spray. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid release to the environment. Use care in handling/storage.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.

#### 7.3. Specific end use(s)

Not available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Lead Metal (general- and high purity grade) (7439-92-1)	TWA	0.15 mg/m <sup>3</sup>

##### EU. Directive 98/24/EC: on the protection of workers from the risks related to chemical agents at work, Annex I List of Binding Occupational Exposure Limit Values

Components	Type	Value
Lead Metal (general- and high purity grade) (7439-92-1)	TWA	0.15 mg/m <sup>3</sup>

##### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Tin (7440-31-5)	TWA	2 mg/m <sup>3</sup>

##### Biological limit values

##### EU. Directive 98/24/EC: on the protection of workers from the risks related to chemical agents at work, Annex II Binding Biological Limit Values and Health Surveillance Measures

Components	Value	Determinant	Specimen
Lead Metal (general- and high purity grade) (7439-92-1)	70 µg/100 ml	Lead	Blood

#### Recommended monitoring procedures

Follow standard monitoring procedures.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate general and local exhaust ventilation.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Chemical goggles are recommended.

##### Skin protection

##### - Hand protection

Use protective gloves made of: Leather

##### - Other

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Normal work clothing (long sleeved shirts and long pants) is recommended.

##### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

##### Thermal hazards

Thermally protective gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. Avoid contact with molten material.

##### Hygiene measures

Avoid contact with skin. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes.

##### Environmental exposure controls

Not available.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

##### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Roll.
<b>Colour</b>	Metallic.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	183 - 314 °C (361.4 - 597.2 °F)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	insoluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

## 9.2. Other information

<b>Density</b>	7.00 - 9.00 g/ml @ 20 °C
----------------	--------------------------

## **SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	Strong oxidizing agents.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	None under normal conditions.
<b>10.5. Incompatible materials</b>	Strong oxidizing agents. Acids. Chlorine.
<b>10.6. Hazardous decomposition products</b>	Not available.

## **SECTION 11: Toxicological information**

<b>General information</b>	Not available.
----------------------------	----------------

### **Information on likely routes of exposure**

<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.

<b>Symptoms</b>	Not available.
-----------------	----------------

### **11.1. Information on toxicological effects**

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Lead Metal (general- and high purity grade) (7439-92-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, OECD Guideline 402

Components	Species	Test results
<i>Oral</i> LD50	Rat	> 5000 mg/kg, OECD Guideline 401
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/irritation</b>	Not available.	
<b>Respiratory sensitisation</b>	Not available.	
<b>Skin sensitisation</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	Not available.	
<b>Reproductive toxicity</b>	Not available.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Mixture versus substance information</b>	Not available.	
<b>Other information</b>	Not available.	

## **SECTION 12: Ecological information**

<b>12.1. Toxicity</b>	Not expected to be harmful to aquatic organisms. Avoid discharge into drains, water courses or onto the ground.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

## **SECTION 13: Disposal considerations**

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

## **SECTION 14: Transport information**

<b>ADR</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **EU regulations**

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**  
Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**  
Not listed.
- Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**  
Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
Lead Metal (general- and high purity grade) (CAS 7439-92-1)

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**  
Not listed.

#### **Authorisations**

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**  
Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Lead Metal (general- and high purity grade) (CAS 7439-92-1)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Lead Metal (general- and high purity grade) (CAS 7439-92-1)

#### **Other EU regulations**

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**  
Not regulated.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**  
Lead Metal (general- and high purity grade) (CAS 7439-92-1)

**Directive 94/33/EC on the protection of young people at work**  
Lead Metal (general- and high purity grade) (CAS 7439-92-1)

#### **Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

#### **National regulations**

Not available.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15** None.

**Training information** Not available.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

**SDS sections updated**

SECTION 1: Identification of the substance/mixture and of the company/undertaking: Product use  
SECTION 2: Hazards identification: Specific hazards  
SECTION 2: Hazards identification: Main symptoms  
SECTION 2: Hazards identification: Response  
SECTION 2: Hazards identification: Prevention  
SECTION 2: Hazards identification: GHS Hazard Statements  
SECTION 2: Hazards identification: 2.3. Other hazards  
SECTION 2: Hazards identification: Classification of the substance or mixture  
SECTION 2: Hazards identification: Classification according to Directive 67/548/EEC or 1999/45/E  
SECTION 2: Hazards identification: Supplemental label information  
SECTION 5: Firefighting measures: Special fire fighting procedures  
SECTION 6: Accidental release measures: 6.3. Methods and material for containment and cleaning up  
SECTION 10: Stability and reactivity: 10.5. Incompatible materials