



STANNOL

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture Lötendraht 2630/2632/HS10/HS05/362 Bleihaltige Legierungen

Synonyms Lötzinn Pb60Sn40 * Lötzinn Pb65Sn35 * Lötzinn Pb70Sn30 * Lötzinn Pb75Sn25 * Lötzinn Pb88Sn12 * Lötzinn Pb92Sn8 * Lötzinn Pb95Sn5 * Lötzinn Sn50Pb50 * Lötzinn Sn60Pb40 * Lötzinn Sn63Pb37 * Lötzinn Sn64Pb36 * Lötzinn Pb93Sn5Ag2 * Lötzinn Sn60Pb39Cu1 * Lötzinn Sn62Pb36Ag2

Issue date 20-November-2012

Version number 1.1

Revision date 19-September-2013

Supersedes date 10-September-2013

Product use Consumer use

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

Identified uses Metal alloy for soft solder

Uses advised against None known

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 May cause sensitisation by skin contact.

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)	36 - 93	7439-92-1 231-100-4	-	082-001-00-6	#
Classification:	DSD: -				
	CLP: -				
Tin	4.5 - 64.5	7440-31-5 231-141-8	-	-	#
Classification:	DSD: -				
	CLP: -				
Rosin	<= 3.8	8050-09-7 232-475-7	-	650-015-00-7	
Classification:	DSD: R43				
	CLP: Skin Sens. 1;H317				
Silver (metal, >1mm)	<= 2.2	7440-22-4 231-131-3	-	-	#
Classification:	DSD: -				
	CLP: -				
Copper Metal	<= 1.6	7440-50-8 231-159-6	-	-	
Classification:	DSD: -				
	CLP: -				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

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 Alloy with additions (<0.1% other ferrous metals)

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 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 Remove material, as much as possible, using mechanical equipment. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. For waste disposal, see section 13.

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	Form
Copper Metal (7440-50-8)	STEL	2 mg/m ³	Inhalable dusts and mists.
	TWA	1 mg/m ³	Inhalable dusts and mists.
		0.2 mg/m ³	Fume.
Lead Metal (general- and high purity grade) (7439-92-1)	TWA	0.15 mg/m ³	
		0.15 mg/m ³	Fume.
Rosin (8050-09-7)	STEL	0.15 mg/m ³	Fume.
	TWA	0.05 mg/m ³	Fume.
Silver (metal, >1mm) (7440-22-4)	TWA	0.1 mg/m ³	

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 ³

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

Components	Type	Value
Silver (metal, >1mm) (7440-22-4)	TWA	0.1 mg/m ³
Tin (7440-31-5)	TWA	2 mg/m ³

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

Physical state Solid.

Form Roll.

Colour Metallic.

Odour Odourless.

Odour threshold Not available.

pH Not applicable.

Melting point/freezing point 179 - 301 °C (354.2 - 573.8 °F)

Initial boiling point and boiling range Not available.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density Not available.

Solubility(ies) insoluble

Partition coefficient (n-octanol/water) Not available.

Decomposition temperature Not available.

Viscosity Not applicable.

Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
Density	7.00 - 9.00 g/ml @ 20 °C

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Not available.

Inhalation Not available.

Skin contact Not available.

Eye contact Not available.

Symptoms Not available.

11.1. Information on toxicological effects

Components	Species	Test results
Copper Metal (7440-50-8)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, OECD Guideline 402
<i>Oral</i>		
LD50	Rat	> 2500 mg/kg, OECD Guideline 401
Lead Metal (general- and high purity grade) (7439-92-1)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, OECD Guideline 402
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, OECD Guideline 401
Silver (metal, >1mm) (7440-22-4)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/irritation	Not available.	
Respiratory sensitisation	Not available.	
Skin sensitisation	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity - repeated exposure	Not available.	
Aspiration hazard	Not available.	

Mixture versus substance information Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Not expected to be harmful to aquatic organisms.

Components	Species	Test results
Rosin (8050-09-7)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 911 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 1000 mg/l, 96 hours

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow) Not available.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

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)

Rosin (CAS 8050-09-7)

Directive 94/33/EC on the protection of young people at work

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

Rosin (CAS 8050-09-7)

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

R43 May cause sensitisation by skin contact.

H317 - May cause an allergic skin reaction.

Training information

Not available.

Disclaimer

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

SDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

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