

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	Lötzinn 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 * STANNOLOY * STRATOLOY * WSL-3 * DX_10HT		
Issue date	30-July-2012		
Version number	1.2		
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	None known		
1.3. Details of the supplier of the	e safety data sheet		
Company name Address	STANNOL GmbH Oskarstr. 3-7 42283 Wuppertal Germany		
Contact person Telephone number Fax e-mail Contact person Emergency telephone number	Dr. Sven Mönninghoff +49 (0) 202 585-129 +49 (0) 202 585 155 sven.moenninghoff@stannol.de HSE-BBS@bayer.com +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 I	number	-
EC I	label	Not available.
R-pl	hrases	Not available.
S-pł	hrases	Not available.
Autl	horisation number	Not available.
Supplen	nental label information	Remark: As an article, this product has not to be labelled pursuant to current EU-regulation.
2.3. Othe	er hazards	Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical	name
ononioui	manne

CAS-No. / EC No. REACH Registration No. INDEX No. Notes

Lead Metal (general- a grade)	nd high purity	36 - 92	7439-92-1 231-100-4	-	082-001-00-6	#
Classification:	DSD: -					
	CLP: -					
Tin		8 - 64	7440-31-5 231-141-8	-	-	#
Classification:	DSD: -					
	CLP: -					

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.

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SECTION 4: First aid measures

General information

Not available.

4.1. Description of first aid meas	sures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Thermal burn hazard - contact with hot material may cause thermal burns. Rinse skin with water/shower. Get medical attention if irritation develops and persists.		
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Thermal burn hazard - contact with hot material may cause thermal burns. 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	Not available.		

SECTION 5: Firefighting measures

General fire hazards	Not available.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Dry sand. Powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	In case of fire, toxic and irritating gases may be formed.
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, prote	ctive equipment and emergency procedures		
For non-emergency personnel	Keep unnecessary personnel away.		
For emergency responders	Not available.		
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.		
6.3. Methods and material for containment and cleaning up	Shovel up and place in a container for salvage or disposal.		
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. Proputions for sofs	Avoid formation	of duct and correctle	Do not broothe mist or veneur. Avoid contact with bot		
7.1. Precautions for safe handling	material. Avoid	Avoid formation of dust and aerosols. Do not breathe mist or vapour. Avoid contact with hot material. Avoid prolonged exposure. Do not use in areas without adequate ventilation. When using, do not eat, drink or smoke. Use care in handling/storage.			
7.2. Conditions for safe storage, including any		Store in a dry place. Store in original tightly closed container. Use care in handling/storage. Store in accordance with local/regional/national/international regulation.			
ncompatibilities 7.3. Specific end use(s)	Not available.				
•					
SECTION 8: Exposure co	ontrois/persona	I protection			
8.1. Control parameters					
Occupational exposure limits					
UK. EH40 Workplace Exp Components		s) ype	Value		
Lead Metal (general- and high purity grade) (7439-92-1)		WA	0.15 mg/m3		
, ,			ks related to chemical agents at work, Annex I List	of	
Components		уре	Value		
Lead Metal (general- and high purity grade) (7439-92-1)	Т	WA	0.15 mg/m3		
•			000/39/EC, 2006/15/EC, 2009/161/EU		
Components		уре	Value		
Tin (7440-31-5)	l	WA	2 mg/m3		
Components Lead Metal (general- and	Value 70 μg/100 ml	Determinant Lead	Specimen Blood		
high purity grade) (7439-92-1)	70 μg/100 mi	Leau	BIOOU		
Recommended monitoring procedures	Follow standard monitoring procedures.				
3.2. 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.				
ndividual protection measure	s, such as person				
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.				
Skin protection		• • • •			
		• • • •			
- Hand protection	When material i	sses with side shields			
- Hand protection - Other	Personal protec	sses with side shields s heated, wear gloves tion equipment should	(or goggles) and a face shield.		
•	Personal protec discussion with When workers a	sses with side shields s heated, wear gloves tion equipment should the supplier of the per	(or goggles) and a face shield. to protect against thermal burns. be chosen according to the CEN standards and in sonal protective equipment. ns above the exposure limit they must use appropriat	е	
- Other	Personal protec discussion with When workers a certified respirat	sses with side shields s heated, wear gloves tion equipment should the supplier of the per are facing concentratio	(or goggles) and a face shield. to protect against thermal burns. be chosen according to the CEN standards and in sonal protective equipment. ns above the exposure limit they must use appropriat	е	
- Other Respiratory protection Thermal hazards	Personal protec discussion with When workers a certified respirat Avoid contact w When using, do	sses with side shields s heated, wear gloves tion equipment should the supplier of the per are facing concentratio tors. Dust filter P2 (for ith molten material. not eat, drink or smok	(or goggles) and a face shield. to protect against thermal burns. be chosen according to the CEN standards and in sonal protective equipment. ns above the exposure limit they must use appropriat		
- Other Respiratory protection	Personal protec discussion with When workers a certified respirat Avoid contact w When using, do	sses with side shields s heated, wear gloves tion equipment should the supplier of the per are facing concentratio tors. Dust filter P2 (for ith molten material. not eat, drink or smok	(or goggles) and a face shield. to protect against thermal burns. be chosen according to the CEN standards and in sonal protective equipment. ns above the exposure limit they must use appropriat fine dust). e. Avoid contact with eyes. Avoid contact with skin. H		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Solid.
barren
Metallic.

Odour	Odourless.				
Odour threshold	Not available.				
pН	Not applicable.				
Melting point/freezing point	183 - 290 °C (361.4 - 554 °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 exp					
Flammability limit - lower (%)	osive limits Not available.				
Flammability limit - upper (%)	Not available.	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.	Not available.			
9.2. Other information					
Density	7.00 - 9.00 g/ml @ 20 °C				
SECTION 10: Stability and	reactivity				
10.2. Chemical stability					
10.3. Possibility of hazardous	Material is stable under normal conditions.				
reactions 10.4. Conditions to avoid	No dangerous reaction known under conditions of normal use.				
	None under normal conditions.				
10.5. Incompatible materials 10.6. Hazardous	Strong oxidizing agents. No hazardous decomposition products are known.				
decomposition products					
SECTION 11: Toxicologica	I information				
General information	Not available.				
Information on likely routes of e	xposure				
Ingestion	Not available.				
Inhalation	Not available.				
Skin contact	Not available.				
Eye contact	Not available.				
Symptoms	Not available.				
11.1. Information on toxicologic	al effects				
Components	Species	Test results			
Lead Metal (general- and high pur	ity grade) (7439-92-1)				
Acute					
Dermal	D-t				
LD50	Rat	> 2000 mg/kg, OECD Guideline 402			
Oral	Det				
LD50	Rat	> 5000 mg/kg, OECD Guideline 401			
Skin corrosion/irritation	Not available.				
Serious eye damage/irritation Respiratory sensitisation	Not available.				
	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.
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

AD	n	
	14.1. UN number	UN3288
	14.2. UN proper shipping	Toxic solid, inorganic, n.o.s. (Lead Metal (general- and high purity grade))
	name	
	14.3. Transport hazard	6.1(PGIII)
	class(es)	
	Subsidiary class(es)	-
	14.4. Packing group	
	14.5. Environmental hazards	No
	Tunnel restriction code	E
	Labels required	6.1
	14.6. Special precautions	Not available.
	for user	
	Hazard ID	60
ΙΑΤ	A	
	14.1. UN number	UN3288
	14.2. UN proper shipping	Toxic solid, inorganic, n.o.s. (Lead Metal (general- and high purity grade))
	name	
	14.3. Transport hazard	6.1(PGIII)
	class(es)	
	Subsidiary class(es)	-
	14.4. Packing group	
	14.5. Environmental hazards	Not available.
	Labels required	Not available.
	ERG Code	6L

14.6. Special precautions for user	Not available.
IMDG	
14.1. UN number	UN3288
14.2. UN proper shipping name	Toxic solid, inorganic, n.o.s. (Lead Metal (general- and high purity grade)), Marine pollutant
14.3. Transport hazard class(es)	6.1(PGIII)
Subsidiary class(es)	-
14.4. Packing group	
14.5. Environmental hazards	
Marine pollutant	Yes
Labels required	Not available.
EmS No.	F-A, S-A
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.
SECTION 15: Regulatory in	formation

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.	
	1005/0000 an automass that deviate the second laws Assess

- 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	TRGS 505: lead and lead-containing hazardous substances
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	This document has undergone significant changes and should be reviewed in its entirety.