

Information Data Sheet

following Regulation (EC) No 1907/2006

Revision date: 29.06.2021

PbSn5Ag2,5

Product code: 482

Page 1 of 8

SECTION 1: Identification of the product and of the company/undertaking

The material is defined as a manufactured substance as defined by the EU Regulation No. 1907/2006 (REACH-Regulation).

There is no legal requirement to produce a safety data sheet.

We therefore wish to advise that this information sheet is a voluntary one not subject to the formal requirements of the REACH regulation.

1.1. Product identifier

PbSn5Ag2,5

1.2. Relevant identified uses of the product and uses advised against

Use of the product

Solder material

1.3. Details of the supplier of the information data sheet

Company name:	Pfarr Stanztechnik GmbH
Street:	Am kleinen Sand
Place:	D-36419 Buttlar
Telephone:	+49 (0)36967 747-0
e-mail:	info@pfarr.de
Internet:	www.pfarr.de

1.4. Emergency telephone number:

+49 (0)36967 747-0 (8h-17h)

SECTION 2: Hazards identification

2.1. Classification of the product

GB CLP Regulation

Hazard categories:

Acute toxicity: Acute Tox. 4

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Reproductive toxicity: Repr. 1A

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Harmful if swallowed or if inhaled.

May damage the unborn child. Suspected of damaging fertility.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Lead

Signal word: Danger

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

Information Data Sheet

following Regulation (EC) No 1907/2006

PbSn5Ag2,5

Revision date: 29.06.2021

Product code: 482

Page 2 of 8

P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

Additional advice on labelling

In accordance with Annex I Section 1.3.4. of the CLP Regulations no labeling for this alloy is required.

2.3. Other hazards

In the normal delivered state, the material is non-hazardous. The main concerns surrounding this material are in its use as a solder. The information in this information sheet are therefore focused on its use as a solder. During heating metal and metal oxide fumes may be generated which under normal circumstances will seldom if ever exceed the established limits for workplace safety. Over-heating can, however, lead to the emission of dangerous fumes in concentrations harmful to health. Metallic fumes can attack the airways, nose and throat. Metal powders irritate the eyes and are injurious to health if ingested.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7439-92-1	lead massive [particle diameter >= 1 mm]			92,5 %
	231-100-4	082-014-00-7		
	Repr. 1A, Lact.; H360FD H362			
7440-31-5	tin			5,0 %
	231-141-8			
7440-22-4	silver			2,5 %
	231-131-3		01-2119555669-21	

Full text of H and EUH statements: see section 16.

Further Information

This product contains with lead (CAS: 7439-92-1) a substance of very high concern (SVHC). The substance restricted under REACH, Article 59.

SECTION 4: First aid measures
4.1. Description of first aid measures
After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

Information Data Sheet

following Regulation (EC) No 1907/2006

Revision date: 29.06.2021

PbSn5Ag2,5

Product code: 482

Page 3 of 8

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Information Data Sheet

following Regulation (EC) No 1907/2006

PbSn5Ag2,5

Revision date: 29.06.2021

Product code: 482

Page 4 of 8

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Lead other than lead alkyls	-	0.15		TWA (8 h)	CLAW
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
7439-92-1	Lead (any other employee)	lead	35 µg/dl	blood	Random

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7440-22-4	silver			
Worker DNEL, long-term		inhalation	systemic	0,1 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

Skin protection

Body protection: not required.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

 Physical state: solid
 Colour: metallic

Test method

Information Data Sheet

following Regulation (EC) No 1907/2006

Revision date: 29.06.2021

PbSn5Ag2,5

Product code: 482

Page 5 of 8

pH-Value: not determined

Changes in the physical state

Melting point/freezing point: 299-303 °C

Boiling point or initial boiling point and boiling range: not determined

Flash point: not applicable

Flammability

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: ASTM E 659

Self-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 25 °C): 11,01 g/cm³

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic: 22,54 mm²/s
(at 85 °C)

Relative vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

Information Data Sheet

following Regulation (EC) No 1907/2006

PbSn5Ag2,5

Revision date: 29.06.2021

Product code: 482

Page 6 of 8

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****ATEmix calculated**

ATE (oral) 540,5 mg/kg; ATE (inhalation vapour) 11,24 mg/l; ATE (inhalation aerosol) 1,622 mg/l

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information**12.1. Toxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
7440-22-4	silver	70		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

170403 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); metals (including their alloys); Lead

List of Wastes Code - used product

170403 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); metals (including their alloys); Lead

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Information Data Sheet

following Regulation (EC) No 1907/2006

Revision date: 29.06.2021

PbSn5Ag2,5

Product code: 482

Page 7 of 8

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
lead massive [particle diameter ≥ 1 mm]

Restrictions on use (REACH, annex XVII):

Entry 30

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

- - non-hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes to the previous version in Sections 2 and 3. Data source:
REACH-Regulations (EC) No 1907/2006, as last amended by Regulation (EU) No 453/2010 Regulation (EC) No 1272/2008, as last amended by Regulation (EC) No 790/2009.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H302+H332	Harmful if swallowed or if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product

Information Data Sheet

following Regulation (EC) No 1907/2006

PbSn5Ag2,5

Revision date: 29.06.2021

Product code: 482

Page 8 of 8

named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)