

**Trade name:** Metal Foils With Lead Content >0,3% Pb: Pb/Sn Foil With Sb, Ag, Bi, Cu

**Current version :** 2.2.0, issued: 09.11.2021

**Replaced version:** 2.1.0, issued: 25.09.2019

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Metal Foils With Lead Content >0,3% Pb: Pb/Sn Foil With Sb, Ag, Bi, Cu**

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

**Relevant identified uses of the substance or mixture**

X-Ray Applications, Shielding, Seals, Plating, Fuses, Decoratives, Solder

**Uses advised against**

Contact with Foodstuff or Cosmetics, Toys and more. Please follow relevant jurisdiction.

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

**Address**

EppsteinFOILS GmbH & Co KG

Burgstrasse 81-83

65817 Eppstein

Telephone no. +49 (0) 6198 572 252

Fax no. +49 (0) 6198 572 1252

**Information provided by / telephone**

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0) 6131 / 19240 (24 Stunden Notrufnummer Giftinformationszentrale Mainz)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product is an article in the sense of Article 3 of Regulation (EC) 1907/2006 (REACH) and is not subject to labelling according to Article 1, Regulation (EC) 1272/2008 (CLP).

Provision of a safety data sheet is not mandatory for articles according to Article 31 of Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazardous component(s) to be indicated on label:**

lead massive [particle diameter  $\geq$  1 mm]

**Labelling information**

This product is an article in the sense of article 3 of the European Chemicals Regulation (REACH) 1907/2006/EC and therefore not subject to the labelling obligations according to the EU guideline 1272/2008. Submission of a safety data sheet is not mandatory for articles and is done on a voluntary basis.

### 2.3 Other hazards

**PBT assessment**

The product is not considered to be a PBT.

**vPvB assessment**

The product is not considered to be a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

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**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	lead massive [particle diameter $\geq$ 1 mm]			
	7439-92-1 231-100-4 082-014-00-7 01-2119513221-59	Repr. 1A; H360FD Lact.; H362 STOT RE 1; H372	< 100.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Route, target organ, concrete effect
1	H372 -; central nervous system, kidney, haemolytic (blood) system; -

**3.3 Other information**

This product is an article in the sense of article 3 of the European Chemicals Regulation (REACH) 1907/2006/EC and therefore not subject to the labelling obligations according to the EU regulation 1272/2008 (CLP). Submission of a safety data sheet is not mandatory for articles and is done on a voluntary basis.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

No special measures necessary.

**After inhalation**

Not relevant due to the compact form of the product.

**After skin contact**

When in contact with the skin, clean with soap and water.

**After eye contact**

Not relevant, due to the compact form of the product.

**After ingestion**

Not relevant, due to the compact form of the product.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings. Carbon dioxide; Extinguishing powder; Water spray jet; Fight large fires with directed water spray or Alcohol-resistant foam

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

Lead oxide; Lead fumes

**5.3 Advice for firefighters**

Wear protective clothing. Use self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

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**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the subsoil/soil. Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Avoid raising dust. Do not stir up dust. Use a damp cloth or a vacuum cleaner with an approved filter to remove any accumulated dust. Do not use a broom or compressed air. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary.

**General protective and hygiene measures**

Avoid contact with eyes and skin. When in contact with the skin, clean with soap and water. Do not eat or drink during work time. Keep away from foodstuffs and beverages.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep the product in the original packing.

**Incompatible products**

Do not store together with: Acids; oxidizing agents

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
	98/24/EG		
	Inorganic lead and its compounds		
	WEL long-term (8-hr TWA reference period)	0.15	mg/m <sup>3</sup>
2	copper massive	7440-50-8	231-159-6
	List of approved workplace exposure limits (WELs) / EH40		
	Copper (as Cu) fume		
	WEL long-term (8-hr TWA reference period)	0.2	mg/m <sup>3</sup>
	List of approved workplace exposure limits (WELs) / EH40		
	Copper and compounds (as Cu) dusts and mists		
	WEL short-term (15 min reference period)	2	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	1	mg/m <sup>3</sup>
3	antimony, massive	7440-36-0	231-146-5
	List of approved workplace exposure limits (WELs) / EH40		
	Antimony		
	WEL long-term (8-hr TWA reference period)	0.5	mg/m <sup>3</sup>
4	silver	7440-22-4	231-131-3

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List of approved workplace exposure limits (WELs) / EH40			
Silver (metallic)			
WEL long-term (8-hr TWA reference period)	0.1	mg/m <sup>3</sup>	
2000/39/EC			
Silver, metallic			
WEL long-term (8-hr TWA reference period)	0.1	mg/m <sup>3</sup>	

## DNEL, DMEL and PNEC values

### PNEC values

No	Substance name	CAS / EC no
ecological compartment		Type
		Value
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1 231-100-4
	water	fresh water
	water	fresh water sediment
	with reference to: dry weight	
	water	marine water
	water	marine water sediment
	with reference to: dry weight	
	soil	-
	with reference to: dry weight	
	sewage treatment plant	-
	secondary poisoning	mammalian
	with reference to: food	
	Comments: food chain fresh water, food chain marine water, food chain soil	
	secondary poisoning	Bird
	with reference to: food	

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

### Personal protective equipment

#### Respiratory protection

Particle filter mask DIN EN 143 type 3, code colour: white

#### Eye / face protection

No special measures required.

#### Hand protection

Protective gloves (EN 374)

Appropriate Material                      Leather

#### Other

Normal chemical work clothing. Do not stir up dust. Use a damp cloth or a vacuum cleaner with an approved filter to remove any accumulated dust. Do not use a broom or compressed air.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>
solid
<b>Form/Colour</b>
solid
grey - metallic and shiny
<b>Odour</b>

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No data available

**pH value**

No data available

**Boiling point / boiling range**

No data available

**Melting point/freezing point**

No data available

**Decomposition temperature**

No data available

**Flash point**

No data available

**Ignition temperature**

No data available

**Flammability**

No data available

**Lower explosion limit**

No data available

**Upper explosion limit**

No data available

**Vapour pressure**

No data available

**Relative vapour density**

No data available

**Relative density**

No data available

**Density**

No data available

**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No data available

**Viscosity**

No data available

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Stable under recommended storage and handling conditions (See section 7).

**10.4 Conditions to avoid**

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Product attrition may lead to lead dust with particles &lt;1mm; Avoid raising dust.

**10.5 Incompatible materials**

Acids; Oxidizing agents

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
LD50	>	2000	mg/kg bodyweight
Species	rat		
Source	CSR		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Source	CSR		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
LC50	>	5	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Source	CSR		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source	CSR		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source	CSR		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Route of exposure	respiratory tract		
Source	CSR		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	Skin		
Source	CSR		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source	CSR		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
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No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are met.	

<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT - single exposure</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are met.	

<b>Aspiration hazard</b>			
No data available			

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
LC50		107	µg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
with reference to		Pb, tests conducted with soluble lead salts; pH >5,5-8,5	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
EC50		170.5	µg/l
Duration of exposure		48	h
Species		Daphnia magna	
with reference to		Pb, tests conducted with soluble lead salts; pH <7,5-8,5	
Evaluation/classification		Based on available data, the classification criteria are not met.	

<b>Toxicity to Daphnia (chronic)</b>			
No data available			

<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4

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EC50	233.1	µg/l
Duration of exposure	72	h
Species	Pseudokirchneriella subcapitata	
Evaluation/classification	Based on available data, the classification criteria are not met.	

<b>Toxicity to algae (chronic)</b>
No data available

<b>Bacteria toxicity</b>
No data available

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant



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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

The article contains following substance/s that is/are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter $\geq$ 1 mm]	7439-92-1	231-100-4

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	lead massive [particle diameter $\geq$ 1 mm]	7439-92-1	231-100-4	30, 63, 72

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**15.2 Chemical safety assessment**

No data available.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 727736