

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

Current version : 2.2.1, issued: 10.10.2024

Replaced version: 2.2.0, issued: 09.11.2021

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 ≥ 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 of H- and EUH-phrases, if not already mentioned in section 2.2: 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
	2022/431/EC		
	Inorganic lead and its compounds		
	WEL long-term (8-hr TWA reference period)	0.15	mg/m ³
98/24/EC	Inorganic lead and its compounds		
	WEL long-term (8-hr TWA reference period)	0.15	mg/m ³
	2	copper massive	7440-50-8
	List of approved workplace exposure limits (WELs) / EH40		
	Copper (as Cu) fume		
	WEL long-term (8-hr TWA reference period)	0.2	mg/m ³
	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 ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³
3	antimony, massive	7440-36-0	231-146-5
	List of approved workplace exposure limits (WELs) / EH40		
	Antimony		

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	WEL long-term (8-hr TWA reference period)	0.5	mg/m ³
4	silver	7440-22-4	231-131-3
List of approved workplace exposure limits (WELs) / EH40			
Silver (metallic)			
	WEL long-term (8-hr TWA reference period)	0.1	mg/m ³
	2000/39/EC		
Silver, metallic			
	WEL long-term (8-hr TWA reference period)	0.1	mg/m ³

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	lead massive [particle diameter ≥ 1 mm]			7439-92-1 231-100-4
	inhalative	Long term (chronic)	systemic	40 µg/dL
	with reference to: blood			
	inhalative	Long term (chronic)	systemic	10 µg/dL
	with reference to: blood			
	Comments: for pregnant women			

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	lead massive [particle diameter ≥ 1 mm]			7439-92-1 231-100-4
	inhalative	Long term (chronic)	systemic	20 µg/dL
	with reference to: blood			
	inhalative	Long term (chronic)	systemic	5 µg/dL
	with reference to: blood			
	Comments: for pregnant women			
	inhalative	Long term (chronic)	systemic	2 µg/dL
	with reference to: blood			
	Comments: for children			

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	2.4 µg/L
	water	fresh water sediment	186 mg/kg
	with reference to: dry weight		
	water	marine water	3.3 µg/L
	water	marine water sediment	168 mg/kg
	with reference to: dry weight		
	soil	-	212 mg/kg
	with reference to: dry weight		
	sewage treatment plant	-	100 µg/L
	secondary poisoning	mammalian	10.9 mg/kg
	with reference to: food		
	Comments: food chain fresh water, food chain marine water, food chain soil		
	secondary poisoning	Bird	16.9 mg/kg
	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

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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

State of aggregation	solid
Form	solid
Colour	grey - metallic and shiny
Odour	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

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Solubility

No data available

Partition coefficient n-octanol/water (log value)

No data available

Kinematic 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

Product attrition may lead to lead dust with particles <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		
Method	OECD 423		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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	rat		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter ≥ 1 mm]	7439-92-1	231-100-4
LC50	>	5.05	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		

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Method	OECD 403
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter \geq 1 mm]	7439-92-1	231-100-4
Duration of exposure		4	h
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
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 \geq 1 mm]	7439-92-1	231-100-4
Duration of exposure		72	h
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
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 \geq 1 mm]	7439-92-1	231-100-4
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
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 \geq 1 mm]	7439-92-1	231-100-4
Source		CSR	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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

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

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

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

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Aspiration hazard

No data available

Endocrine disrupting properties

No data available

11.2 Information on other hazards
Other information

No data available.

SECTION 12: Ecological information
12.1 Toxicity
Toxicity to fish (acute)

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter \geq 1 mm]	7439-92-1	231-100-4
LC50		107	$\mu\text{g/l}$
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.		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter \geq 1 mm]	7439-92-1	231-100-4
EC50		170.5	$\mu\text{g/l}$
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.		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	lead massive [particle diameter \geq 1 mm]	7439-92-1	231-100-4
EC50		233.1	$\mu\text{g/l}$
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

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
Results of PBT and vPvB assessment
Product Name
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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 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

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 ≥ 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.				
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1	lead massive [particle diameter \geq 1 mm]	7439-92-1	231-100-4	30, 63, 72, 75
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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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