

LOT-LF

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1. Identification

Product identifier

LOT-LF

UFI: W110-801S-F00W-SXKW

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer
Street: Im Tiefen See 45
Place: D-64293 Darmstadt
Telephone: +49 (0)6151 803-0
Internet: www.hbm.com
Responsible Department: support@hbm.com

Emergency phone number: +49-30-18412-0

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Label elements

Regulation (EC) No. 1272/2008

Hazards not otherwise classified

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
7440-31-5	Tin	10-100 %
7440-22-4	Silver	3-4 %
7440-50-8	copper	0,5-0,9 %

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

Further Information

This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

4. First-aid measures

Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

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After inhalation

Remove casualty to fresh air and keep warm and at rest.
If experiencing respiratory symptoms: Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvents/Thinner.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Burning produces heavy smoke.
Hazardous decomposition products: carbon black. Danger of serious damage to health by prolonged exposure.
Use appropriate respiratory protection.

Special protective equipment and precautions for fire-fighters

Use water spray/stream to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

No information available.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General measures**

Avoid breathing dust/fume/gas/mist/vapors/spray.
Safe handling: see section 7
Personal protection equipment (PPE): see section 8

Environmental precautions

No special measures are necessary.

Methods and material for containment and cleaning up**Other information**

No special measures are necessary.

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Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapors/spray. When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8

Keep/Store only in original container.

Advice on protection against fire and explosion

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

Further information on handling

When using do not eat, drink or smoke. Personal protection equipment (PPE): see section 8

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

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

No special measures are necessary.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

8. Exposure controls/personal protection**Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
7440-50-8	Copper (dusts and mists, as Cu)	-	1		TWA (8 h)	REL
7440-50-8	Copper Dusts and mists (as Cu)	-	1		TWA (8 h)	PEL
7440-22-4	Silver (metal dust and soluble compounds, as Ag)	-	0.01		TWA (8 h)	REL
7440-22-4	Silver, metal and soluble compounds (as Ag)	-	0.01		TWA (8 h)	PEL
7440-31-5	Tin, organic compounds (as Sn)	-	0.1		TWA (8 h)	PEL
7440-31-5	Tin	-	2		TWA (8 h)	REL

Additional advice on limit values

No information available.

Exposure controls**Appropriate engineering controls**

No special measures are necessary.

Protective and hygiene measures

Wash hands before breaks and after work.

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When using do not eat or drink.
 Draw up and observe skin protection programme.
 Use protective skin cream before handling the product.
 Wear suitable protective clothing.

Eye/face protection

No special measures are necessary.

Hand protection

Use protective skin cream before handling the product.

Skin protection

No special measures are necessary.

Respiratory protection

No special measures are necessary.

Environmental exposure controls

No special measures are necessary.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	solid
Color:	silver
Odor:	odorless

Test method

pH-Value:	not determined
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Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
not determined:	

Flash point:	not determined
Sustaining combustion:	No data available

Flammability

Solid/liquid:	not determined
Gas:	not determined

Explosive properties

not relevant

Lower explosion limits:	not relevant
Upper explosion limits:	not relevant
Auto-ignition temperature:	not relevant

Self-ignition temperature

Solid:	not relevant
Gas:	not relevant

Decomposition temperature:	not relevant
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Oxidizing properties

not relevant

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Vapor pressure: (at 20 °C)	not determined
Vapor pressure: (at 50 °C)	not determined
Density (at 20 °C):	not determined
Bulk density:	DIN 53217
Water solubility:	not determined
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time: (at 23 °C)	not determined
Relative vapour density: (at 20 °C)	7-9 g/cm ³
Evaporation rate:	not determined
Solvent separation test:	not relevant
Solvent content:	not determined
Other information	
Solid content:	not determined

No information available.

10. Stability and reactivity**Reactivity**

The product is chemically stable under recommended conditions of storage, use and temperature.

Chemical stability

Stability: Stable

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

No information available.

Conditions to avoid

No information available.

Incompatible materials

No information available.

Hazardous decomposition products

No information available.

Further information

No information available.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

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Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience

After eye contact:

Irritating to eyes. (reversible.)

Further information

There are no data available on the mixture itself.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Reference to other sections: 2, 3

12. Ecological information**Ecotoxicity**

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Recycle according to official regulations.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. Transport information**US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)**UN number:**

No dangerous good in sense of this transport regulation.

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UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number: No dangerous good in sense of this transport regulation.
UN proper shipping name: No dangerous good in sense of this transport regulation.
Transport hazard class(es): No dangerous good in sense of this transport regulation.
Packing group: No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 304 CERCLA:

Silver (7440-22-4): Reportable quantity = 1,000 (454) lbs. (kg)

Copper (7440-50-8): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 313 Toxic release inventory:

Silver (7440-22-4): De minimis limit = 1.0 %, Reportable threshold = Standard

Copper (7440-50-8): De minimis limit = 1.0 %, Reportable threshold = Standard

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information

Observe in addition any national regulations!

16. Other information

Changes

Revision date: 02/15/2021

Revision No: 1,3

This data sheet contains changes from the previous version in section(s): 4,5,6,7,8.

Relevant H statements (full text)

EUH210 Safety data sheet available on request.

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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