

Item no.: 2280536

Material Safety Data Sheet

1. Product & Company Identification

Item no.	Product
2280536	Lead-free solder wires

Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92242 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Internet:	www.conrad.com
Date of issue:	15.12.2025

1.1 Product identifier

Product name: Lead-free solder wires

1.2 Application of the substance / the preparation

End uses: Solder

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

The product is not classified according to CLP Regulation.

Classification system:

The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.

2.2 Label elements

Labeling according to Regulation(EC)No. 1272/2008:

The product is not labelled according to CLP Regulation.

Hazard pictograms:

Not applicable

Signal word:

Not applicable

Hazard-determining components of labelling:

Not applicable

Hazard statements:

Not applicable

Precautionary statements:

Not applicable

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2.3 Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. Composition/Information on Ingredient

Chemical Name	CAS No.	EC No.	Composition (in% by weight)
Tin	7440-31-5	231-141-8	99.3
Copper	7440-50-8	231-159-6	0.7

4. First Aid Measures

After skin contact:

Clean with soapy water.

After eye contact:

Rinse opened eye for several minutes under running water.

After ingestion:

If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting to an unconscious person or person having convulsions. Seek medical attention immediately in this case.

5. Fire and Explosion Hazard Data

Extinguishing media:

Small exergy CO₂, dry powder fire extinguishers, sand or clay, fire foam fire extinguisher, if involving charged device, preferably using dry powder fire extinguisher.

Specific hazards arising from the substance or mixture:

Slight fire hazard when exposed to heat or flame. May expansion or decompose explosively when heated or involved in fire. Development of hazardous combustion gases or vapor possible in the event of fire.

Advice for fire-fighters:

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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6. Accidental Release Measures

Environmental Protection:

Isolation leakage polluted area, restricting access. Cut off the fire source. Recommended emergency personnel wearing a dust mask (full cover), wearing protective clothing. Leakage areas keep ventilation.

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. Avoid vapour formation.

Procedure for Cleaning/Collecting:

Contain the spilled material using non-combustible absorbent and collect for disposal in accordance with local regulations using specified containers.

7. Handling and Storage

Handling Precautions:

The use of human or corresponding mechanical equipment for foam stacking and waste recycling. Disposal of this material must be made in accordance with Federal, State and Local regulations.

Storage Precautions:

Products must be stored in place of dike. Maintain warehouse cool, dry, ventilated, not subject to direct sunlight. Warehouse is strictly prohibited fireworks, from all sources of water, and equipped with the appropriate variety of fire equipment.

8. Exposure Controls, Personal Protection

Control parameters:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating /lighting/equipment. Set up emergency exit and necessary risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

Eye protection:

Wear chemical safety glasses.

Body protection:

Wear protective overalls on infiltration.

Hand protection:

Wash hands after completing work. Gloves recommended.

Other protection:

1. Work site prohibit smoking, eating and drinking;
2. Work complete, thorough cleaning;
3. Separate storage of toxic pollution by the clothes, washed the standby;
4. Pay attention to personal hygiene.

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9. Physical and Chemical Properties

Physical State:	Soild
Odor:	odourless
Colour:	Silver
PH value:	N/A
Vapor Pressure:	N/A
Melting point:	No data available
Boiling point:	N/A
Flammability(solid, gas):	N/A
Vapor Density (Air = 1):	N/A
Decomposition Temperature:	N/A
Evaporation rate (butyl acetate = 1):	N/A
Natural temperature:	N/A
Density (water = 1):	N/A
Flash Point:	N/A
Other information:	N/A

10. Stability and Reactivity

Stability:

Normal conditions and stability.

Avoid material:

Dimethyl benzene, Acetone and other solvents.

Avoid contact with conditions:

1. Avoid heat, fire environment;
2. Avoid strong oxidizing environment;
3. Avoid exposure to strong acidic environment.

Aggregate hazard:

N/A

Decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. Toxicological Information

Acute toxicity:

Component	CAS No.	LD50 (oral)	LD50 (dermal))	LC50 (inhalation,4h)
Tin	7440-31-5	No information available	No information available	No information available
Copper	7440-50-8	No information available	No information available	No information available

Carcinogenicity:

Component	Cas No.	IARC	NTP
Tin	7440-31-5	Not Listed	Not Listed
Copper	7440-50-8	Not Listed	Not Listed

Others:

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Based on available data, the classification criteria are not met

Skin sensitization

Based on available data, the classification criteria are not met

Respiratory sensitization

Based on available data, the classification criteria are not met

Reproductive toxicity

Based on available data, the classification criteria are not met

STOT-single exposure

Based on available data, the classification criteria are not met

STOT-repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Reproductive toxicity (additional)

Based on available data, the classification criteria are not met

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12. Ecological Information

Acute aquatic toxicity:

Component	CAS No.	Fish	Crustaceans	Algae
Tin	7440-31-5	No information available	No information available	No information available
Copper	7440-50-8	No information available	No information available	No information available

Chronic aquatic toxicity:

Component	CAS No.	Fish	Crustaceans	Algae
Tin	7440-31-5	No information available	No information available	No information available
Copper	7440-50-8	No information available	No information available	No information available

Persistence and degradability:

Component	CAS No.	Persistence (water/soil)	Persistence (air)
Tin	7440-31-5	Low	Low
Copper	7440-50-8	Low	Low

Bioaccumulative potential:

Component	CAS No.	Bioaccumulative potential	Comments
Tin	7440-31-5	Low	No information available
Copper	7440-50-8	Low	No information available

Mobility in soil:

Component	CAS No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (KOC)
Tin	7440-31-5	Low	No information available
Copper	7440-50-8	Low	No information available

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13. Disposal Considerations

Waste characteristics:

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Waste disposal method:

Follow federal, state and local department all provision about health and abandoned handling.

Waste Note:

N/A

14. Transport Information

Transportation Note:

Transport ago, examine containers is complete, seal or not, ensure that the container does not leak, does not collapse, and does not fall and no damage. Strictly prohibited with oxidants, food chemicals and other mixed loading mixed transportation. Conveyance must be thoroughly cleaned, disinfected, or not shipped with other goods.

Transport Fashion:

Sea

IMDG-CODE:

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

ICAO/IATA-DG:

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

UN-ADR:

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

15. Regulatory Information

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work.

15.2 National regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation. None of ingredients is listed.

REACH Regulation Annex XVII Restriction. None of ingredients is listed.

REACH Regulation Annex XIV Authorization List. None of ingredients is listed.

15.3 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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16. Additional Information

References:

N/A

Abbreviations and acronyms:

CAS - Chemical Abstracts Service

IARC - International Agency for Research on Cancer

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

PBT - Persistent, Bioaccumulative, Toxic

vPvB - very Persistent, very Bioaccumulative

IMDG - International Maritime Dangerous Goods

ICAO/IATA - International Civil Aviation Organization/ International Air Transportation Association

UN - The United Nations

Disclaimer:

This Safety Data Sheet (SDS) was prepared according to REACH Regulation the data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.