

1. Product and Company Identification

Product Name Solder

Alloy composition Lead-free Sn99.3/Cu0.7

Supplier Premier Farnell plc

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Emergency Telephone Numbers +44 1865 407333

2. Hazards Identification

Physical State and Appearance Solder

Emergency Overview Warning!





Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

Eyes May be causing irritant in case of eye contact

Skin This product may be hazardous in case of skin contact (irritant, sensitizer). Skin

inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Fumes and/ or dusts produced by this product may be hazardous in case of inhalation.

Ingestion This product may be hazardous in case of ingestion.

Potential Chronic Health Effects Chronic effects: Fumes and /or dusts produced by this product may be hazardous in case

of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). Non- corrosive for skin. Non-permeator by skin.

Medical Conditions

Aggravated by Overexposure Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure/ Signs/ Symptoms N/A

3. Hazardous Ingredients

Hazardous Components								
Common Name	Chemical Formula	Weight %	CAS. No.	TWA	STEL	CEILING	LD 50	LC 50
Tin	Sn	99.3	7440-31-5	2	4	N/A	N/A	N/A





Hazardous Components								
Common Name	Chemical Formula	Weight %	CAS. No.	TWA	STEL	CEILING	LD 50	LC 50
Silver	Ag	-	7440-22-4	0.01	0.03	N/A	N/A	N/A
Copper	Cu	0.7	7440-50-8	0.2	N/A	N/A	N/A	N/A
Antimony	Sb	-	7440-36-0	0.5	1.5	N/A	N/A	N/A
Rosin	-	2.5~3.0	8050/9/7	0.1	N/A	N/A	N/A	N/A

4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes

with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Cover the irritated skin with emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical

attention.

Hazardous Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial

cream. Seek medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Hazardous Inhalation

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt

or waistband.

Hazardous Ingestion N/A
Notes to Physician N/A

5. Fire Fighting Measures

Suitable extinguisher Dry powdered type

Under high-temperature condition, do not use water: Not applicable.

Fire fighters must wear special protective equipment

6. Accidental Release Measures

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Finish cleaning by spreading water on the contaminated surface and dispose of

according to local and regional authority requirements.

cleaning by spreading water on the contaminated surface and allow to evacuate through

the sanitary system.

7. Handling and Storage

Handling Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly

after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

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8. Exposure Controls, Personal Protection

Engineering Protection Use process enclosures, local exhaust ventilation, or other engineering controls to keep

airborne levels below recommended exposure limits If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the

exposure limit.

Personal Protection:

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/ certified respirator or equivalent. Wear

appropriate respirator when ventilation.

Hands Gloves.

Feet Not applicable.

Note: Suggested protective clothing may not be adequate for a specific process. Consult a specialist before using.

Personal Protection

in case of a large Spill Splash goggles. Full Suit. Dust respirator. Boots. Gloves. A self contained breathing

apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

9. Physical and Chemical Properties

Physical State and Appearance Solid grey color

Smell Odorless

Chemical FormulaNot applicable.pH(1% Soln/ Water)Not applicable.Acid ValueNot available.Boiling/ Condensation PointNot available.

Melting/ Freezing Point 227°C

Critical Temperature Not available. **Vapor Pressure** Not applicable. **Vapor Density** Not available. Volatility Not available. **Odor Threshold** Not available. Odor Not available. **Taste** Not available. Color sliver-grey. **Specific Gravity** 7.38 (water = 1)**Evaporation Rate** Not available. VOC Not available. **Viscosity** Not available.

LogKow The product is insoluble in water and oil.





Ionicity (In Water) Non-ionic

Dispersion Properties Is not dispersed in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.

Solubility Insoluble

Physcial Chemical Comments Not available.

10. Stability and Reactivity

Stability and Reactivity This product is stable.

Conditions of Instability Stable in normal conditions. Over melting point, will emit toxic tin oxides. (Tin)

Incompatibility with

Various Substances Slightly reactive with oxidizing agents, acids, moisture.

Hazardous

Decomposition ProductsNot available.Hazardous PolymerizationWill not occur.

Corrosivity Not considered to be corrosive for matals and glass according to our database.

Special Remarks on Corrosivity Not available.

11. Toxicological Information

Toxic and Chronic

Effects on Humans Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of

inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer),

of eye contact (irritant). Non-corrosive for skin. Non-permeator by skin.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

The product may be toxic to kidneys, lungs, liver, mucous membranes, upper respiratory

tract, skin, eye, lens or cornea.

Repeated or prolonged exposure to the substance can produce target organs damage.

Toxicity to Animals LD50: N/A

LC50: N/A

Special Remarks on Chronic

Effects on Humans Prolonged and repeated exposure to tin oxyde fumes may result in benigne

pneumoconiosis (stannosis). (Tin)

Chronic Effects on Humans N/A

Developmental Toxicity: N/A

Special Remarks on Other

Toxic Effects on Humans MOLTEN METAL can cause severe Burns! Fumes and dust may irritate eyes,

digestive system and respiratory tract. (Tin)

Special Remarks on

Toxicity on Animals No additional remark

12. Ecological Information

Ecotoxicity Unknown BOD5 and COD Unknown

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Biodegradable/ OECD Unknown

Mobility Possibly hazardous short term degradation products are not likely. However, long term

degradation products may arise.

Toxicity of the Products of

Biodegradation

The product itself and its products of degradation are not toxic.

Special Remarks on the

Products of Biodegradation

13. Disposal considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

N/A

Waste stream N/A Consult your local or regional authorities.

14. Transport Information

UN Number: None

UN Transportation name: IATA-Dangerous goods regulations

Classification: Non-DOT restrictive material

Packing class: None
Ocean pollution: No

Special transport

methods and remarks: N/A

15. Regulatory Information

- Compliant to Labor/Sanitary Regulations
- Standards of labor working environment regulating air density of hazardous materials
- Standards of waste handling and storage
- Identification rules on hazardous materials
- Safety rules of road transportation.

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