

Safety Data Sheet



Manufacturer Information



Item Name : Solder
Alloy composition : Lead-free Sn99.3/Cu0.7

Manufacturer

Premier Farnell plc
150 Armley Road, Leeds, LS12 2QQ
+44 (0) 8701 202530

Emergency Telephone Numbers
+44 1865 407333

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). Noncorrosive 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	

Hazardous Ingredients

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
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 to 3	8050/9/7	0.1	N/A	N/A	N/A	N/A

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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.

Fire Fighting Measures

Suitable extinguisher : Dry powdered type

Under high-temperature condition, do not use water directly that will prevent powder spreading to cause Not applicable. skin burning.

Fire fighters must wear special protective equipment

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.

Large Spill and Leak : Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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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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.

Physical and Chemical Properties

Physical State and Appearance	: Solid grey colour
Smell	: Odorless
Chemical Formula	: Not applicable.
pH(1% Soln/ Water)	: Not applicable.
Acid Value	: Not available.
Boiling/ Condensation Point	: Not 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.
Colour	: Silver-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
Physical Chemical Comments	: Not available.



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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 Products	: Not available.
Hazardous Polymerization	: Will not occur.
Corrosivity	: Not considered to be corrosive for metals and glass according to our database.
Special Remarks on Corrosivity	: Not available.
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). Noncorrosive 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!
Special Remarks on Toxicity on Animals	: Fumes and dust may irritate eyes, digestive system and respiratory tract. (Tin) : No additional remark

Ecological Information

Ecotoxicity	: Unkown
BOD5 and COD	: Unkown
Biodegradable/ OECD	: Unkown
Mobility	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegration	: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	: N/A

Disposal considerations

Waste Information	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste stream	: N/A
Consult your local or regional authorities.	



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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

Regulatory Information

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

Part Number
21-1041
21-1042
21-1046
21-1047
21-2050
21-20720

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