

C-SOLDER TYPE: SAC-1B



SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	C-SOLDER; TYPE: SAC-1B
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Description	Solder wire
1.3. Details of the supplier of the safety data sheet	
Company Address	CAMETICS Cambridge Advanced Metals Limited UNIT 24 South Cambridge Business Park Babraham Road, Sawston Cambridge CB22 3JH United Kingdom
Telephone	+44(0)1223971140
Email	contact@cametics.com
1.4. Emergency telephone number	
Emergency telephone number	+447535000807 (9am – 9pm)

SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification (CLP)	The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP)
2.2. Label elements	
Label elements (CLP)	The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP)
2.3. Label elements	
Description	Avoid breathing fumes given out during soldering. After handling solder wash hands with soap and water before eating, drinking or smoking. Keep out of reach of children.

SECTION 3: Hazards identification

3.1. Substances

Declaration of the ingredients according to CLP (EC) No 1272/2008

CHEMICAL NAME	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Tin	7440-31-5	231-141-8	01-2119486474-28	70 - 100 %	
Copper	7440-50-8	231-159-6	01-2119480154-42	0.01 – 6 %	
Silver	7440-22-4	231-131-3	01-2119555669-21	0.01 – 6 %	
Chromium	7440-47-3	231-157-5	01-2119485652-31	1 - 10 %	

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move to fresh air. If symptoms persist, seek medical advice.
Skin contact	May cause irritation to skin. Rinse with running water and soap. Obtain medical attention if irritation persists.
Eye contact	May cause irritation to eyes. Flush eyes with plenty of water for at least 5 minutes. If irritation persists, seek medical attention.
Ingestion	Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show product container/label/safety data sheet.
Most important symptoms and effects, both acute and delayed	Prolonged or repeated contact may cause skin irritation. Prolonged or repeated contact may cause eye irritation.
Indication of any immediate medical attention and special treatment needed	See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use as appropriate: Carbon dioxide (CO ₂), Dry chemical, Foam.
Extinguishing media which must not be used for safety reasons	Do not use water on fires where molten metal is present.
Advice for firefighters	Wear self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Description	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2. Environmental precautions

Description	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

Description	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Description	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

Description	Keep in a cool, dry, well ventilated area.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

CHEMICAL NAME	CAS No.	Long-term exposure Limit (8-hr TWA reference period)		Short-term exposure limit (15-minute reference period)	
		ppm	mg.m ⁻³	ppm	mg.m ⁻³
Tin compounds (as Sn)	7440-31-5	-	2	-	4
Copper fume (as Cu)	7440-50-8	-	0.2	-	-
Copper and compounds: dust and mists (as Cu)	-	-	1	-	2
Silver	7440-22-4	-	0.1	-	-
Chromium	7440-47-3	-	0.5	-	-

8.2. Exposure controls

Appropriate engineering controls	Ensure adequate ventilation of the working area. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Respiratory protection	Ensure adequate ventilation. Wear self-contained breathing apparatus the product is used in a poorly ventilated area.
Skin protection - Hand protection	Chemical resistant gloves (EN 374). Wear suitable protective clothing.
Eye / face protection	Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Solid
Colour	Grey
Odor	None
Density	No data available
Melting point	232°C (solidus temp.)
Boiling point	No data available
Flash point	No data available
Autoignition temperature	No data available
Solubility	Immiscible in water



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SECTION 10: Stability and reactivity	
10.2. Chemical stability	
Description	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	
Description	No decomposition if stored and applied as directed.
10.6. Hazardous decomposition products	
Description	Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
General toxicological information	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Oral toxicity	This material is considered to have low toxicity if swallowed.
Inhalative toxicity	Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.
Dermal toxicity	This product is considered to have low dermal toxicity.
Skin irritation	Fumes emitted during soldering may irritate the skin.
Eye irritation	Fumes emitted during soldering may irritate the eyes.

SECTION 12: Ecological information	
General toxicological information	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
12.1. Toxicity	
Ecotoxicity	Do not empty into drains / surface water / ground water
12.2. Persistence and degradability	
Ecotoxicity	The product is not biodegradable.
12.3. Bioaccumulative potential	
Description	No data available.
12.4. Mobility in soil	
Description	The product is insoluble and sinks in water.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product disposal	Wherever possible unwanted solder alloy should be recycled for recovery of metal. Otherwise dispose of in accordance with local and national regulations.

SECTION 14: Transport information	
13.1. Waste treatment methods	
Description	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.



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SECTION 15: Regulatory information

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

Description	This Product is Classified to Regulation 1272/2008/EC(CLP).
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SECTION 16: Other information

Other information

Description	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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