CooperTools GmbH

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Safety data sheet as per 91/155/EEC

Written on: Revised on: 20.07.2005

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## Trade Name: Weller Solder Wire LF

1	Materials/Preparation and company designation		
	Production specifications:	Solder Wire SN96,5 AG3CU0,5F3L1	
	Trade name: model no.	Weller Solder Wire LF Ø 0,5 Order no. 005 13 822 99	
		Weller Solder Wire LF Ø 1,0 Order no. 005 13 823 99	
	Manufacturer/supplier:	CooperTools GmbH, Carl-Benz-Str. 2, 74354 Besigheim	
		Tel: +49 7143 580-0, Fax: +49 7143 580-108	
	Information supplied by:	Environmental Protection Department	
		Tel.: +49 7143 580 101, Fax: +49 7143 580 183	
	Emergency Phone:	GIZ Mainz Tel.: +49 6131 - 19240	

2	Composition/co	omponent data				
	Chemical charac	cteristics:				
	<ul><li>Description:</li></ul>		Tin alloy			
	<ul> <li>Hazardous cor</li> </ul>	ntents:				
	CAS No.	Designation	%	Code	R paragraphs	EU No.
	7440-31-5	Tin	94,8-97,5			231-141-8
	7440-50-8	Copper	0,3-0,7			231-159-6
	8050-09-7	Colophony	1-10	Xi	37-43	232-475-7
	7440-22-4	Silver	2,7-3,9			231-131-3

3	Potential hazards	
	Hazard designation:	N/A
	Special hazards information for persons and environment:	Contact with molten liquid will cause severe burns. Repeated Exposure may cause cumulative effects. Sensitisation by Skin Contact.

4	First aid measures	
	General information:	None
	After inhalation:	Remove at once to fresh air. Keep warm and rest. Call for immediate medical attention if there is any respiratory Distress.
	After skin contact:	Wash the skin with soap and warm water. If any soreness or Inflammation persists call for medical attention. Wash all contaminated workwear before reuse. After contact with molten liquid, flood with cold water. Call for immediate medical attention.
	After eye contact:	Flush eyes for several minutes with flowing water, keeping eyes open. Call for immediate medical attention.
	After swallowing:	Do not induce vomiting. Keep warm and rest. Wash out mouth. Call for immediate medical attention.

5	Fire-fighting measures	
	Suitable extinguishing agent:	Use an Alcohol resistant foam, Water spray, Dry chemical. Sand may be used for small fires.
	Unsuitable extinguishing agents for safety reasons:	Do NOT use water jet or Carbon Dioxide extinguisher.
	Special hazard resulting from the substance, its combustion products or resulting gases:	Gives off hazardous fumes in a fire.
	Special protective equipment:	Use Full Protective Clothing and Self-Contained Breathing Apparatus Operated in Positive Pressure Mode.

6	Measures if inadvertently released		
	Personal precautions:	Avoid skin contact. Wear appropriate protective clothing.	
	Environmental precautions:	Never permit release to sewage system.	
	Procedure for cleaning/gathering up:	Scoop or Sweep UP and Discard. Avoid creating dust.	

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## **Trade Name:** Weller Solder Wire LF

7	Handling and storage		
	Handling		
	Information for safe handling:	Avoid contact with the eyes and skin. Avoid breathing fumes and Dust. Use local exhaust ventilation. Avoid contaminated workwear.	
	<ul> <li>Information for fire and explosion protection:</li> </ul>	n.a	
	Storage		
	<ul> <li>Requirements for store rooms</li> </ul>		
	and containers:	Store in a cool and dry ventilated place. Ensure correctly labelled.	
	Storage with other substances:	n.a.	
	<ul> <li>Further details on storage conditions:</li> </ul>	n.r.	
	Storage class:	n.a.	
	VbF class (regulation on flammable liquids)	n.r.	

8	Exposure limits and personal protective equipment					
		Additional information for layout of technical equipment:  Exhaust equipment:				
	technical equipment					
	Components with lin	nit values for mo	nitoring in the work	nitoring in the workplace:		
	CAS No.	Substance	e designation	Type	Limit value	Unit
	7440-31-5		Tin		OES 2mg/n	
	7440-50-8	С	opper	1117 51140	OES,STEL 4r OES 1mg/n	n³ 8Hr TWA
	8050-09-7	Col	ophony	UK EH40	OES,STEL 2r MEL 0,05mg, MEL,STEL 0,15	∕m³ 8Hr TWA
	7440-22-4	9	Silver		OES 0,1mg/	
	Additional information:  Personal protective equipment: General protection and hygiene measures:  • Breathing protection		Biological Standards: Under the management of Health and Safety at Work (Amendment) Regulations 1994 employers should asses the risks at work to the health of pregnant workers, those who have recently given birth, or who are currently breast feeding.			
					-	_
			Wash hands prior to breaks and at end of work. Engineering solutions should be implemented to prevent or reduce Exposure to soldering fumes and dust. This should include process or personnel enclosure, Mechanical dust and fume extraction to Atmosphere/scrubber. Control of process to reduce or eliminate Emissions. Documented process and safety controls and personnel protection, Gloves, Masks etc.		re to soldering onnel enclosure, /scrubber. Control ented process s, Masks etc.	
			Where there is a hig should be worn.	h risk to fum	e and dust ingestior	n a respirator
	<ul> <li>Hand protection</li> </ul>		Wear rubber gloves.			
	<ul> <li>Eye protection</li> </ul>		Wear safety glasses.			
	<ul> <li>Body protection</li> </ul>		Wear normal industrial workwear, avoid exposed skin.			

9	Physical and chemical prope	rties:		
	Form:	Solid at room temperatur	re	
	Colour:	Grey metallic		
	Odour:	mild		
		Value/range	Unit	Method
	Flashpoint:	n.a.		
	Ignition point	n.a.		
	Viscosity:	n.a.		
	Density at 20 °C:	7.40 Approx.	g/cm³	
	Lower Ex-limit:	n.a.		
	Upper Ex-limit:	n.a.		

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ADR/RID-GGVS/E Class:Numeric character/letter:

Kemler number:

Designation of goods:

• IMDG/GGVSea Class:

Ocean transport IMDG/GGVSea

• UN number:



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## Trade Name: Weller Solder Wire LF

	W	eller Solder Wire LF	
	Calubility in water at 20 °C;	Insoluble	
	Solubility in water at 20 °C: Change of state:	n.a.	
	Melting point:	423-428 F (217-220 °C) / Flux 172 F (78 °C)	
	Boiling point/range:	662 F (350 °C)	
	Extinguishing agent contents:	n.a.	
	organic	n.a.	
	water / Volume of solids		
	Bulk density:	n.a.	
	Vapour pressure at 20 ℃:	n.a.	
	pH-value at 2%:	n.a.	
10	Stability and reactivity		
	Thermal decomposition /	Stable under all normal factory conditions. / None Known	
	conditions to be avoided:	Solder will react with concentrated Nitric Acid to release Nitric Oxide	
	Hazardous reactions:	which will oxidise to Nitrogen Dioxide. Workers exposed to these	
		gases should seek medical attention. Other strong acids may also	
		react in a similar way.	
	Hazardous decomposition	Molten liquid may give fumes. Avoid temps above 500 ℃. Heated	
	products:	Colophony gives rise to fumes associated with asthma.	
11	Toxicology data		
	Acute toxicity:	Can lead to weakness, insomnia, hypertension, headaches and joint	
	•	pains. Low order of toxicity.	
	Primary irritant effects:		
	On the skin:	May cause skin irritation.	
	On the eye:	May cause conjunctional irritation, corneal damage and iritis.  Damage in the blood – forming, nervous, urinary and reproductive	
	Sensory effects	systems.	
	Additional toxicological	May cause harm to the unborn child. May impair fertility.	
	information:	iviay cause nami to the unborn chiid. Way impair lertility.	
12	Ecological information		
	Ecotoxicity	Rated as slightly toxic to Aquatic species.	
	Degradability and Persistence	Resistant to Bio-degradation.	
	Bio-accumulation	Has the potential to bio-accumulate.	
	Mobility	A small portion will dissolve in water, will accumulate in soil.	
13	Notes on disposal		
	Product:		
	Recommendation:	Use up. Dispose of in a Permitted Disposal Site in Accordance with	
		all Federal and Local Disposal Regulations ( special waste	
	144	regulations).	
	Waste reference number:	Recommandation: AVV-Code 17 04 06	
	Waste name:	Other non ferrous metal	
	Uncleaned packaging:	Discount of the other transfer of the other	
	Recommendation:     Diagonal route:	Disposal according to official regulations.	
<u> </u>	Disposal route:	Waste Disposal	
14	Transport data		
	Land transport ADR/RID and GGVE (internal/international)		

n.a.

n.a.

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**Trade Name:** Weller Solder Wire LF

• Page:	
UN number:	
<ul><li>Packaging group:</li></ul>	
EMS number:	
• MFAG:	
Marine pollutant:	
<ul><li>Correct technical name:</li></ul>	
Air transport ICAO-TI and IATA-D	GR
ICAO/IATA Class:	
<ul><li>UN/ID number:</li></ul>	
<ul><li>Packaging group:</li></ul>	n.a.
Correct technical name:	

15	Instructions	
	Identification to EC directives:	irritant
	<ul> <li>Identification letter and hazard designation of product:</li> </ul>	Xi
	<ul><li>Hazard components for labelling:</li></ul>	Colophony
	R paragraphs:	36/37/38 Irritating to eyes, respiratory system and skin 42 May cause sensitisation by inhalation 43 May cause sensitisation by skin contact
	• S paragraphs:	P8 warning contains colophony  2 Keep out of the reach of children.  23 Do not breathe fumes. 24 Avoid contact with skin.  37 Wear suitable gloves. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	<ul> <li>Special identification special preparations:</li> </ul>	n.a.
	National regulations	
	<ul> <li>Occupational restrictions</li> </ul>	n.a.
	<ul> <li>Hazardous Incident Ordinance:</li> </ul>	n.a.
	<ul> <li>VbF Classification (regulation on flammable liquids):</li> </ul>	n.a.
	<ul> <li>Technical atmospheric instructions:</li> </ul>	n.a.
	Water pollution class:	1 (self-assessment)

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Trade Name: Weller Solder Wire LF

16	Other information	
	Applicable EC Directives	Dangerous substances Directive 67/548/EEC and amended by Directive 92/32/EEC Dangerous Preparations Directive 88/379/EEC and amended by Directive 90/492/EEC
	Applicable EC Directives	The control of substances Hazardous to Health Regulations 1994 The Health and Safety at Work Act 1974 The Management of Health and Safety at Work Regulations 1992 The Management of Health and Safety at Work Regulations 1994 as amended
	Technical Guidance	Chemical (Hazard Information & Packaging for Supply) Regulations CHIP 1997 An Introduction to Local Exhaust Ventilation HS(G)37 A Step by Step Guide to the COSHH Regulations HS(G)97
	This information is intended for use in the United Kingdom only, as different limits may be set in other countries. Please check with your Local and National Authorities or Supplier.	

This data is based on our present knowledge.

However, it does not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

Department issuing data sheet: Environmental Protection Department Contact partner: V. Heller

n.a.	= not applicable
n.c.	= not determined
n.r.	= not required