



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :	Sifcupron No.17
SYNONYMS:	
PRODUCT CODES :	RO17 [15/24/32] [01/25/50]
SUPPLIER:	Weldability Sif
ADDRESS :	Peters House, The Orbital Centre, Icknield Way, Letchworth Garden City,
	Hertfordshire. SG6 1ET. UK.
CONTACT PHONE :	+44 (0) 1462 482200

CHEMICAL NAME :	Metal Brazing Alloy
CHEMICAL FAMILY:	
CHEMICAL FORMULA:	

PRODUCT USE :	Brazing applications.
PREPARED BY :	Technical Support Team, Weldability Sif

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

+44 (0) 1462 482202

	1			
SUBSTANCE	CAS NO.	% WT	EC NO.	REACH SUBMISSION NO.
Phosphorus	7723-14-0	7	231-768-7	PS378310-17
Copper	7740-50-8	Bal	231-159-6	PS378310-17

SECTION 2 NOTES:	
I DECTION 2 NOTES.	

SECTION 3: HAZARDS IDENTIFICATION

CONTACT FAX:

INGREDIENT:

EMERGENCY OVERVIEW:	These products consist of odourless, metallic, copper-coloured wires and rods in a variety of diameters. There is no immediate health hazard associated with the wire products. These products are not reactive under normal circumstances of use. Though the products are not flammable, when heated they will produce fumes containing copper. Emergency responders must wear personal protective equipment suitable for the situation to which they are responding.
------------------------	--

ROUTES OF ENTRY:	During brazing operations, the most significant route of overexposure is via inhalation of fumes.
------------------	---

POTENTIAL HEALTH EFFECTS			
EYES:	Contact with the wire or rod forms of these products is not anticipated to be irritating. Contact with the wire can be physically damaging to the eye.		
SKIN:	Fumes generated during brazing or welding operations can irritate the skin and eyes. Symptoms of skin overexposure may include irritation and redness; prolonged or repeated skin overexposures may lead to dermatitis. Contact with the		

1

	molten material will burn contaminated skin or eyes.
	SKIN ABSORPTION: Skin absorption is not a significant route of overexposure
	for any component of these bare products.
	INJECTION: Though not a likely route of occupational exposure for these
	products, injection (via punctures or lacerations in the skin) may cause local
	reddening, tissue swelling, and discomfort.
INGESTION:	Ingestion of the rods is not a likely route of occupational exposure.
INHALATION:	Exposure to fumes of these products will irritate the nose, throat and other tissues of the respiratory system. Overexposure to Copper fumes may produce metal fume fever. Symptoms of metal fume fever resemble the flu and include sweating, fever, headache, chills, muscle aches, nausea, vomiting, weakness, and tiredness.
ACUTE HEALTH HAZARDS:	The chief health hazard associated with these products would be the potential for overexposure to fumes during brazing operations. Overexposure to Copper fumes may produce metal fume fever. Contact with the molten material will burn contaminated skin or eyes. TARGET ORGANS: Skin, eyes, and respiratory system.
CHRONIC HEALTH HAZARDS:	Chronic skin overexposure to the fumes of these products during brazing operations may produce dermatitis (red, inflamed skin). TARGET ORGANS: Skin, respiratory system.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	Skin and respiratory disorders, may be aggravated by prolonged overexposures to the fumes of these products. RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

CARCINOGENICITY Not known to be carcinogenic.							
OSHA:		ACGIH: NTP: IARC:					
OTHER:							

SECTION 4: FIRST AID MEASURES

EYES:	If fumes generated by brazing operations involving this product enter the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victim must seek immediate medical attention.				
SKIN:	If fumes generated by brazing operations involving this product contaminate the skin, begin decontamination with running water. If molten material contaminates the skin, immediately begin decontamination with cold, running water. Minimum flushing is for 15 minutes. Victim must seek medical attention if any adverse reaction occurs.				
INGESTION:	Ingestion is not a likely route of exposure for these products. If swallowed call physician immediately! Do not induce vomiting unless directed by medical personnel. Rinse mouth with water if person is conscious. Never give fluids or induce vomiting if person is unconscious, having convulsions, or not breathing.				
INHALATION:	If fumes generated by brazing operations involving this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions.				
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS	Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of label and MSDS to health professional with victim.				

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:	Not applicab	le			
(% BY VOLUME) LOWER:	Not applicab	le			
FLASH POINT:	Not flammab	ole			
F:					
C:					
METHOD USED:					
AUTOIGNITION TEMPERATURE:	Not flammab	ole			
F:					
C:					
NFPA HAZARD CLASSIFICATION					
HEALTH:	1	FLAMMABILITY:	0	REACTIVITY:	0
OTHER:					

HMIS HAZARD CLASSIFICATION			
HEALTH:	FLAMMABILITY:	REACTIVITY:	
PROTECTION:			

EXTINGUISHING MEDIA:	Water Spray, Carbon Dioxide, Halon, Foam, Dry Chemical, Any "ABC" Class.
SPECIAL FIRE FIGHTING PROCEDURES:	Not applicable
UNUSUAL FIRE AND EXPLOSION HAZARDS:	The molten rods can present significant thermal hazards to firefighters.
HAZARDOUS DECOMPOSITION PRODUCTS:	When involved in a fire, these products may generate irritating fumes and a variety of metal oxides. If involved in a fire, the flux coating on the flux coated products may decompose to release fluoride compounds, boric anhydride, and hydrogen fluoride.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	Not applicable
------------------------------	----------------

SECTION 7: HANDLING AND STORAGE

	All employees who handle these products should be trained to handle
	them safely. Use in a well-ventilated location. Avoid breathing fumes
	generated by these products during brazing operations. Packages of
HANDLING AND STORAGE:	these products must be properly labeled. Store containers in a cool,
	dry location. Store away from incompatible materials (see Section 10,
	Stability and Reactivity). Use ventilation and other engineering
	controls to minimize potential exposure these products.
OTHER PRECAUTIONS:	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Prudent practice is to ensure eyewash/safety shower stations are available near areas where these products are used.
VENTILATION:	
RESPIRATORY PROTECTION:	Use with adequate ventilation to ensure exposure levels are maintained below the TLV's associated with the substances listed in Section 2 (Composition and Information on Ingredients).
EYE PROTECTION:	Safety glasses. When these products are used in conjunction with brazing, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number be worn, in accordance with EN169
SKIN PROTECTION:	Wear gloves for routine industrial use. When these products are used in conjunction with brazing, it is recommended that gloves that protect from sparks and flame be worn, in accordance with EN420/EN407
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	Use body protection appropriate for task.
WORK HYGIENIC PRACTICES:	As with all chemicals, avoid getting these products ON YOU or IN YOU. Wash thoroughly after handling these products. Do not eat or drink while handling these products.
EXPOSURE GUIDELINES:	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The following information is for Copper, the main component of this product.

APPEARANCE:	These products consist of metallic-copper wire and rods with no odour.
ODOR:	Odourless
PHYSICAL STATE:	
pH AS SUPPLIED:	Not applicable
pH (Other):	
BOILING POINT:	
F:	4703°F
C:	2595°C
MELTING POINT:	
F:	1981°F
C:	1083°C
FREEZING POINT:	
F:	
C:	
VAPOR PRESSURE (mmHg): @	
F:	
c : @20°C	Not applicable
VAPOR DENSITY (AIR = 1): @	Not applicable
F:	
C:	
SPECIFIC GRAVITY (H20=1): @ F:	8.94
F: C:	
EVAPORATION RATE:	Not applicable

BASIS(=1):	
SOLUBILITY IN WATER:	Insoluble
PERCENT SOLIDS BY WEIGHT:	
PERCENT VOLATILE:	
BY WT/ BY VOL @	
F:	
C:	
VOLATILE ORGANIC COMPOUNDS (VOC):	
WITH WATER: LBS/GAL	
WITHOUT WATER: LBS/GAL	
MOLECULAR WEIGHT:	
VISCOSITY:	
F:	
C:	

SECTION 10: STABILITY AND REACTIVITY

	<u>STABLE</u>	<u>UNSTABLE</u>
STABILITY:	Yes	

CONDITIONS TO AVOID (STABILITY):	Uncontrolled exposure to extreme temperatures, incompatible materials.
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acids, oxidizers, halogens, and acid chlorides.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Thermal decomposition may produce copper and phosphorous, compounds, and a variety of metal oxides.
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID (POLYMERIZATION):	

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	
RISK PHRASES:	
SAFETY PHRASES:	S2: Keep locked up and out of the reach of children. S7: Keep container tightly closed.
SYMBOL(S):	

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	
RISK PHRASES:	R52: Harmful to aquatic organisms R53: May cause long-term adverse effects in the aquatic environment
SAFETY PHRASES:	S61: Avoid release to the environment. Refer to special instructions
SYMBOL(S):	

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. These products, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.
RCRA HAZARD CLASS:	

SECTION 14: TRANSPORT INFORMATION

ROAD TRANSPORTATION	
PROPER SHIPPING NAME:	
HAZARD CLASS:	
UN/ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENT:	
WATER TRANSPORTATION	
PROPER SHIPPING NAME:	
HAZARD CLASS:	
ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENTS:	
AIR TRANSPORTATION	
PROPER SHIPPING NAME:	
HAZARD CLASS:	
ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENTS:	
	•
OTHER TRANSPORT CONSIDERATIONS:	

SECTION 15: REGULATORY INFORMATION

CLASSIFICATION	RISK PHRASES	SAFETY PHRASES	INDICATION(S) OF DANGER
	52, 53	2, 7, 61	

CHEMICAL INVENTORY:	Substances in this preparation are on the EINECS inventory
---------------------	--

SECTION 16: OTHER INFORMATION

The information contained herein relates only to the specific product. If the product is combined with other materials, such as flux, all component properties must be considered, and the relevant MSDs also consulted. To the best knowledge of Weldability Sif, the information and recommendations contained in this publication are reliable and accurate as of the date of issue. However, accuracy, suitability, or completeness are not guaranteed, and no warranty, guarantee, or representation, expressed or implied, is made by Weldability Sif as to the absolute correctness or sufficiency of any representation contained in this and other publications; Weldability Sif assumes no responsibility in connection therewith; nor can it be assumed that all acceptable safety measures may not be required under particular or exceptional conditions or circumstances. Data may be changed from time to time. Be sure to consult the latest edition. PREPARATION INFORMATION:	o n
PREPARATION INFORMATION:	

For further information, contact Weldability | Sif technical support on 0870 330 7757 or email service@wholeweld.co.uk

Doc Ref : SIF/MSDS/RO171501 REV : 05.01.09