Zentrum für Löt- und Entlötsysteme

EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

358-5098 358-5104 358-5116



18. Dezember 2003

Material Safety Data Sheet - according to directive 91/155/EWG

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade Name: SC		SU Solder wire S-Sn99 Cu1 DIN EN 29 453			Flux F-SW 34 NF EN 29 454.1	
1.)	Manufacturer: Address:	EDSYN GMBH Finkenweg 2 D 97892 Kreuz		Tel.: 09342 - 6413 Fax: 09342 - 6417		
2.)	COMPOSITIONS / INFORMATION ON THE COMPONENTS			•		
	2.1 Description:	Solder wire Tir	n/Copper with ind	corporated flux Type	2.2.3 B	
	2.2 Components:	Alloys:	Codes	Concentration	R Phrases:	
		Tin Copper	7440-8 7440-31-5	Rest 0.45% to 0.9%		
3.)	HAZARD IDENTIFICATION					
	3.1 Warning:					
	3.2 Instability:	This product is	stable.			
	3.3 Incompatibility:	Avoid contact with basics, acids and oxidizing chemicals. Hazardous reactions with mineral acids: sulfuric acids, phosphoric, nitric (concentred).				
	3.4 Hazardous products of decomposition:	No hazardous reaction when normally used.				
4.)	FIRST AID MEASURES					
	4.1 Inhalation:				n well ventilated areas	
	4.2 Skin:	Burns: cool aff Do not remove	ected parts under adhering mater		AC values. essing an seek medica	
	4.3 Eyes:	Immediately flo	ood the eye with	n by skin contact. plenty of water for at	t least 15 minutes.	
	4.4 Ingestion:			edical attention. Do rat rest.	not give water when	
5.)	FIRE FIGHTING MEASURES					
	5.1 Extinguishing media: 5.2 Unsuitable extinguished media: 5.3 Special fire fighting measures: 5.4 Special protective equipment for	-CO ₂ foam – A Do not use wa None.		oam – Dry powder.		
	fire fighting:	Wear full prote	ctive clothing an	d self-contained brea	athing.	
	Risks of explosure and fire:					

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6.)	ACCIDENTAL RELEASE MEASURES	
	6.1 Personal precautions: 6.2 Environment precautions:	Wear appropriate protective clothing. Residues should be stored in closed containers. Extract fumes. Try to prevent the material from entering drains or water courses. Disposals
	6.3 Measures for cleaning:	should be in accordance with local states. Scrapped off the released product, store it in a closed container before throughing it, wash the contamined surface with an organic solvant or a detergent. Transfer into suitable containers for recovery or disposal.
	Other data:	
7.)	HANDLING AND STORAGE	
	7.1 Handling: 7.1.1 Personal protective equipment: 7.1.2 Measures for safety handling:	Wear gloves and eye-protection. Use local exhaust ventilation. Ensure efficient local air ventilation or extraction systems at the workplace. Extract fumes during the melting. Avoid breathing metal fumes. Make sure that people work in safety conditions. Do not drink, do not smoke in soldering areas.
	7.1.3 Using advices:	Hazardous reactions with concentrated sulfuric acid, concentrated phosphoric acid and concentrated nitric acid.
	7.2 Storage: 7.2.1 Conditions of storage and protective equipment:	Storage area should be at ambient temperature (20°C-25°C). Avoid sun exposure and heating.
		Strong oxidizing chemicals.
	7.2.2 Incompatible materials: 7.2.3 Conditioning materials Nature of the recommended packaging:	* plastics PP or PE, recyclable polypropylen spools, recyclable containers.
	Not advisable:	* metallic (as aluminum).
	Classification reference:	Page 13 according to VCI
8.)	EXPOSURE CONTROL AND PERSONAL PROTECTION	
	8.1 Occupational exposure standards:	According to INRS ND 19456-153-93 et ND 1962-155-94:
	8.2 Personal protective equipment:	Ensure appropriate air and vapour extraction/ventilation at the workplace.
	Measures of control:	
	Other measures:	
	8.3 Personal protection: Respiratory protection:	P2, ensure appropriate air ventilation.
	Hand protection:	Wear PVC or rubber gloves.
	Eye protection:	Use correctly fitting protective goggles. Face shield when handling hot product.
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Body protection:

Wear appropriate working clothes.

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	8.4 General protective and hygenic instructions:	Do not eat, do not drink, do not smoke at the workplace. Wash hands thoroughly with water and soap before taking breaks, when finishing work and especially before eating. Keep away from food and beverages.			
9.)	PHYSICAL AND CHEMICAL PROPERTIES				
	9.1 Physical properties				
		Binary alloy n° 2 according to NF EN 29453 Standard			
		Physical state: wire			
		Colour: silver metal none			
		Gudui.			
	Boiling point/range:	(of tin) 2260 °C			
	Melting point/range: Density (at 20°C)	S-Sn99Cu1 227 °C S-Sn99Cu1 7.3 g/cm³			
	9.2 Chemical or incorporated flux	No-clean flux according to NF EN 29454.1 standard type 1.2.3 B			
		Flux F-SW34			
	Flux content:	1.4%			
	Halide content:	0%			
	Water solubility (at °C): Solvant content:	insoluble none			
	Softening point:	80 to 100°C			
	5 d	Association to International System ISO 24 9			
	Further Paticulars:	According to International System ISO 31-8.			
10.)	STABILITY AND REACTIVITY				
	Conditions to avoid:	No decomposition if used in accordance with the specifications.			
	Materials to avoid:	Powerful oxidizing chemicals.			
	Other mentionless.				
	Other particulars:				
11.)	TOXICOLOGICAL INFORMATION				
	Toxicological analyses:	This good is not concerned in its final shape.			
	Specific information:	This good is not concerned in its iniar shape.			
	Significant remarks:				
	Special remarks: General remarks:	Possible intoxication by ingestion or by skin contact.			
12.)	ECOLOGICAL INFORMATION				
	Persistence/Degradability:	Tin and copper are not biodegradable and cannot be disposed of.			
	Water pollution:				
	CSB-Values:	mg/g			
	BSB5:	mg/g			

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	AOX-Data:	Containing the chemical formula of heavy metals (refer to Legal rules 76/464/CEE): About 99 % Tin (Sn), About 01% Copper (Cu).	
	General indications:		
13.)	DISPOSAL		
	Product disposal:	The product which is not used and its wastes can be returned to the manufacturer. Metals should be recovered when possible.	
	Waste code number:	manufacturer, metals should be recovered when possible.	
	Container disposal:	Dispose of in accordance with the official regulations.	
14.)	TRANSPORT INFORMATION		
	RID/ADR – Class:	Not hazardous product regarding transport Not classified	
	IMDG -Class IATA - Class:	Not classified Not classified	
	Other regulatory arrangements:	none	
	RIMO R/F:	none	
15.)	REGULATORY INFORMATIONS		
	Labelling information:	This product is classified and labelled as hazardous substance.	
	EU guidelines:	91/322/EU dated 29 may 1991: EU limit values NF EN 481	
		NF EN 482	
	Documents in accordance to the regulations:	INRS 1945-153-93/revised in February 1995: professional exposure limits	
	Technical instructions for air:	values to chemical substances.	
	Tin:	Emission 5 mg/m³ per 25 g/h mass current. Tin and its derivates belong to class III.	
	Water hazard class:	2 (water polluting).	
16.)	OTHER INFORMATION	The relevant data sheet is applicable here.	
		The information contained here in is based on data considered accurate and is offered at no charge.	
		Our aim, by providing the above information which reflects the current status of our knowledge and experience is to describe our product in terms	
		of safety requirements.	
		Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.	
		Supplementary copies of this data sheet are available on request.	