Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

27. Oktober 2011

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

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade Name: SAC		Solder wire S-Sn95,5 Ag3,8 Cu0,7 DIN EN 29 453		Flux F-SW 34 NF EN 29 454.1	
1.)	<u>Manufacturer:</u> Address:	EDSYN GMBH Finkenweg 2 D 97892 Kreuz		Tel.: 09342 - Fax: 09342 -	
2.)	COMPOSITIONS / INFORMATION ON THE COMPONENTS				
	2.1 Description:	Solder wire Silver/Tin/Copper with incorporated flux Type 2.2.3 B			
	2.2 Components:	Alloys:	Codes	Concentra	ntion R Phrases:
		Tin Copper Silver	7440-31-5 7440-8 7440-22-4	Rest 0.65% to 0 3.75% to 3	
3.)	HAZARD IDENTIFICATION				
	3.1 Warning:				
	3.2 Instability:	This product is	stable.		
	3.3 Incompatibility:				chemicals. ric acids, phosphoric, nitric
:	3.4 Hazardous products of decomposition:	No hazardous	reaction when n	ormally used.	
4.)	FIRST AID MEASURES				
	4.1 Inhalation: 4.2 Skin:	Always carry out soldering and melting operations in well ventilated areas to prevent a concentration of fumes higher to the MAC values. Burns: cool affected parts under running water. Do not remove adhering material, apply a sterile dressing and seek			
	4.3 Eyes: 4.4 Ingestion:	medical advice Immediately flo Obtain medical Do not induce	. May cause ser ood the eye with I attention.	nsitisation by sl plenty of water edical attention	
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 fire fighting:	Do not use wat None.	•		vder. d breathing apparatus.
	Risks of explosure and fire:				

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6.)	ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions: 6.2 Environmental precautions: 6.3 Measures for cleaning: Other data:	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 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. Kühn-Brett Remarks "Hazardous materials" text.			
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 ℃-25 ℃). Avoid sun exposure and heating.			
	7.2.2 Incompatible materials:	Strong oxidizing chemicals.			
	7.2.3 Recommended packaging:	Store in original containers. * plastics PP or PE, recyclable polypropylen spools, recyclable containers.			
	Not advisable:	* metallic (as aluminum).			
	Classification reference:	Page 13 according to VCI			
8.)	EXPOSURE CONTROLS AND PERSONAL PROTECTION 8.1 Occupational exposure standards: 8.2 Personal protective equipment:	According to INRS ND 19456-153-93 et ND 1962-155-94: Ensure efficient air and vapour extraction/ventilation at the workplace.			
	Measures of control:	N°CAS Texts Material Values Units			
	Other measures:				
	8.3 Personal protection: Respiratory protection:	P2, ensure appropriate air ventilation or extraction systems.			
	Hand protection:	Wear PVC or rubber gloves.			
	Eye protection: Body protection:	Use correctly fitting protective goggles. Face shield when handling hot product. Wear appropriate working clothes.			

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	8.4 General protective and hygenic instructions:	Do not eat, do not drink, do not Wash hands thoroughly with wa finishing work and especially be Keep away from food and beve	ater and soap before taking breaks, when efore eating.	
9.)	PHYSICAL AND CHEMICAL PROPERTIES			
	9.1 Physical properties	Ternary alloy n° 2 according to NF EN 29453 Standard		
		Physical state: Colour: Odour:	wire silver metal none	
	Boiling point/range (°C): Boiling point/range (°C): Melting point/range: Density (at 20°C)	(of tin) (of copper) S-Sn95.5Ag3.8Cu7 S-Sn95.5Ag3.8Cu7	2260 °C 2595 °C 217 °C 7.3 g/cm³	
	9.2 Chemical or incorporated flux	No-clean flux according to Ni	F EN 29454.1 standard type 1.2.3 B	
	Flux content: Halid content: Ia: Watersolubility (at °C): Solvant content: Softening point: Further Paticulars:	Flux F-SW34 1.4% no about 400 insoluble none 80 to 100°C According to International Systems	em ISO 31-8.	
10.)	STABILITY AND REACTIVITY Conditions to avoid: Materials to avoid: Other particulars:	No decomposition if used in accordance with the specifications. Powerful oxidizing chemicals.		
11.)	TOXICOLOGICAL INFORMATION			
	Toxicological analyses: Special remarks:	This good is not concerned in its final shape.		
	General remarks:	Possible intoxication by ingestic	on or by skin contact.	
12.)	ECOLOGICAL INFORMATION			
	Persistence/Degradation:	Tin is not biodegradable and cannot be disposed of.		
		rivers and drains of water cours mg/g		

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	AOX-Data:	Containing the chemical formula of heavy metals (refer to Legal rules 76/464/CEE): Rest Tin (Sn) About 3.8% Silver (Ag), About 0.2% Copper (Cu).
	General indications:	7. дост. 0.270 обрро. (Со).
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:	N°
	Container disposal:	Dispose of in accordance with the official regulations.
14.)	TRANSPORT INFORMATION	
	RID/ADR – Class: IMDG –Class IATA – Class: Other regulatory arrangements: RIMO R/F:	Not hazardous product regarding transport Not classified No Not restricted none 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: Technical instructions for air:	INRS 1945-153-93/revised in February 1995: professional exposure limits 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.