### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

29. Oktober 2007

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

#### **INTERNATIONAL STANDARD NORM ISO 11014-1**

Trade Name: SSAC 2010		Solder wire S-Sn96,5 Ag3 Cu0,5 DIN EN 29 453		0,5	F-SW32 Type 1.1.3.B NF EN 29 454.1
1.)	<u>Manufacturer:</u> Address:	EDSYN GMBH EUROPA Finkenweg 2 Tel.: 09342 - 6413 D 97892 Kreuzwertheim Fax: 09342 - 6417			
2.)	COMPOSITIONS / INFORMATION ON THE COMPONENTS				
	2.1 Description:	Solder wire Silver/Tin/Copper with incorporated flux Type 1.1.3 B			
	2.2 Components:	Alloys:	Codes	Concer	ntration R Phrases:
		Tin Copper Silver	7440-31-5 7440-8 7440-22-4	96.5% 0. 5% 3%	
		Cored Fluxes:			
		Colophonium Tripropyleneglycol methylic ether Aliphatic organic acid		33.3% 16.7% 50%	
		Quantity:		0.7 - 0.	9% of flux
3.)	HAZARD IDENTIFICATION				
	3.1 Instability:	This product is stable.			
	3.2 Incompatibility:	Avoid contact with basics, acids and oxidizing chemicals. Hazardous reactions with mineral acids: sulfuric acids, phosphoric, nitric (concentrated).  No hazardous reaction when normally used.			
	3.3 Hazardous products of decomposition:				
4.)	FIRST AID MEASURES				
	Dusts and fumes				
	4.1 Inhalation:	In case of large quantities inhaled, remove from the exposure area. Wash nose and lips.  Seek medical advice.			
	4.2 Ingestion:				
	4.3 Skin contact:	No known haz	No known hazardous reaction, wash with water and soap.		
	4.4 Eye contact:	Flush thorough ophthalmologi		in case of p	ersisting irritation seek an

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5.)	FIRE FIGHTING MEASURES	Sn 96,5Ag3Cu0.5 FXN solder wire is not flammable.	
	5.1 Suitable extinguishing media:	Not specific agent, use the suitable media appropriate for surrounding material.	
	5.2 Extinguishing media which must not be used:	Water on liquid metal.	
	5.3 Special exposure hazards:	Inhalation of toxic fumes.	
	5.4 Special protective equipment for fire-fighters:	Wear a self-contained breathing apparatus.	
6.)	ACCIDENTAL RELEASE MEASURES		
	<ul><li>6.1 Individual precautions:</li><li>6.2 Environmental precautions:</li><li>6.3 Methods for cleaning up:</li></ul>	Prefer handle with gloves. Collect the product. Not relevant due to the massive form of the product.	
7.)	HANDLING AND STORAGE		
	7.1 Handling:	Set up a dust, fumes or vapor collection system at the point of emission. Use closed or hood covered systems for thermal operation, avoid blow torch cutting (emission of toxic vapors).	
	7.2 Storage: 7.3 Conditioning materials:	Stow away from foodstuffs. Avoid the possibility of contact with acids. Recyclable containers.	
8.)	EXPOSURE CONTROLS AND PERSONAL PROTECTION		
	8.1 Respiratory protection:	Take an air purifying respirator for limited operations where permissible exposure levels may be exceeded.	
	8.2 Hand protection:	Appropriate gloves.	
	8.3 Eye protection:	Safety glasses or facial shield (if ejections may occur).	
	8.4 Hygienic measures:	Strict hygiene requirements will be prescribed at the workplace.	
9.)	PHYSICAL AND CHEMICAL PROPERTIES		
	Appearance:	Wires	
	Packaging:	Reels of 50 g to 4 kg	
	Characteristic data: Ph: Melting point (alloy): Melting point (flux): Density (alloy): Acid value (flux): Halogen content: Explosivity: Solubility:	Not applicable 217° C 80 to 100° C 7.35 Kg / dm³ at 20° C 520 (Mg Koh for 1 gr. of flux) none not concerned insoluble in water, soluble in acetic acid, in nitric acid in hot concentrated sulfuric acid	

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10.)	STABILITY AND REACTIVITY	The product is stable in normal conditions	
	Conditions to avoid:	Mechanical and thermal operations giving rise to dusts or fumes without appropriate ventilation.	
	Materials to avoid:	Due to the toxic properties of lead salts, avoid accidental contact with acids, particularly with acetic acid.	
	Hazardous decomposition products:	Not applicable.	
11.)	TOXICOLOGICAL INFORMATION		
	Toxicological analyses:	This good is not concerned in its final shape.	
12.)_	ECOLOGICAL INFORMATION		
	Mobility:	Not applicable.	
	Persistence/Degradability:	Sn/Ag/Cu alloy is a particularly corrosion proof metal.	
	Water pollution:	Not available information.	
	AOX-Data:	Containing the chemical formula of heavy metals (refer to Legal rules 76/464/CEE)	
13.)	DISPOSAL		
	Surplus and wastes:	Collect all wastes.	
	Contaminated packaging:	Never use packaging for another purpose.	
14.)	TRANSPORT INFORMATION		
		Not classified as dangerous goods by any international codes or agreements (RID/ADR, IMDG, IATA)	
15.)	REGULATORY INFORMATIONS		
		Regulatory applicable to member states of the European Community	
	Classification, labeling:	Not classified.	
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.	

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