#### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

28. Juli 2005

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

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

Trade Name: CR 44		Solder wire S-Sn99 Cu1 DIN EN 29 453		Flux R, RA, RMA NF EN 29 454.1	
1.)	<u>Manufacturer:</u> Address:	EDSYN GMBH EUR Finkenweg 2 D 97892 Kreuzwerth		Геl.: 09342 - 6413 Fax: 09342 - 6417	
2.)	COMPOSITIONS / INFORMATION ON THE COMPONENTS				
	2.1 Description:	Solder pastes are a resin with activators	mixture of me and thixotrop	etal powder alloy with a flux based ic agents.	on
	2.2 Components:	Alloys:	Codes	Concentration R Phr	ases:
		Sn Pb Ag and: Rosin mixture Terpenes mixture Thixotropic agent m	7440-31-5 7439-92-1 7440-22-4 8050-90-7 98-55-5 ixture	51 - 56%/weight 30 - 36%/weight 0 - 2%/weight 1 - 3,5%/weight 6 - 9%/weight 2,5 - 4%/weight	
	2.3 Hazardous ingredients:	The solder paste co	ntents lead in	alloy with tin.	
	2.4 Additional notice:	Rules and recomme have to be minded.	endations on u	se of lead or lead-containing mate	erials
3.)	POSSIBLE DANGERS				
	3.1 Safety risks:		n could flux ir	eratures higher than 500°C. Deper ritates the skin or mucous membra	
	3.2 Environment:	Water hazarding, be	cause lead c	ontaining.	
:	3.3 Notice:	At processing under hygienic rules no ha		tions and under surveillance of ge by the product.	eneral
4.)	FIRST AID MEASURES				
	4.1 Inhalation:	After inhalation of so	older fumes: b	ring to fresh air.	
	4.2 Skin:	After contact with sk	in wash away	with warm water and soap.	
	4.3 If swallowed:	If swallowed: consul	t a doctor.		
	4.4 Eyes:	After contact with ey consult a doctor.	es: wash out	with much water for at least 15 mi	nutes,
5.)	FIRE FIGHTING MEASURES				

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	5.1 Adequate extinguishing material:	Foam, powder, CO <sub>2</sub> .	
	5.2 Inadequate extinguishing material:	Water	
	5.3 Safety risks:	At Temperature over 500 ℃ lead-fumes can leak out.	
	5.4 Special safety equipment:	At bigger fires respiration protection is recommended.	
6.)	MEASURES AT LEAKING OUT		
	6.1 Personal protection:	No special measures required.	
	6.2 Environmental measures:	Avoid getting into water or drinking water.	
	6.3 Procedures for cleaning:	Remove and dispose mechanical with spatula, cloth etc. Disposal according to the rules for lead or lead-containing products.	
7.)	HANDLING AND STORAGE		
	7.1 Handling 7.1 1 Measures for safety handling:	Avoid leaking into canalization, inshore waters or earth.	
	7.1.2 Personal protective equipment:	Avoid contact with eyes, skin and clothes as well as inhalation of fumes.	
	7.1.3 Using advices:	At use of flame soldering flux can catch fire.	
	7.2 Storage: 7.2.1 Conditions of storage:	Store cool and dry in original containers.  No storage together with food.	
8.)	EXPOSITION AND PERSONAL SAFETY EQUIPMENT		
	8.1 Occupational exposure standards:	Of principle sufficient ventilation is foreseen at all soldering works.	
	8.2 Personal protective equipment:	Components with working place specific to be controlled limits are not	
	8.3 Personal protection:	existing.	
	Inhalation protection:	Not necessary	
	Hand protection:	Gloves (Rubber, Latex)	
	Eye protection:	Safety glasses	
	Body protection:	Not necessary	
9.)	PHYSICAL AND CHEMICAL PROPERTIES		
	Form: Colour: Odour:	pasty metallic grey specific, very weak	
	Melting point/range: Boiling point/range: Flaming point/range:	Resin > 80 ℃, Metal > 183 ℃ n.a. n.a.	

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	Flammability: Explosion danger: Steam pressure: Density: Solubility in water: pH value: Viscosity: Solvent separation test: Solvent content:	flammable with flame n.a. n.a. >3 n.a. (-Flux completely) n.a. (Flux 4-6) 400,000 – 1,000,000 cP.s n.a. 4-6%/Gew	
10.)	STABILITY AND REACTIVITY		
	Reactivity:	Dangerous reactions are not known.	
	Stability:	The product is stable under normal conditions.	
11.)	TOXICOLOGICAL INFORMATION	Under disadvantageous conditions (Temperature, Oxidation, Acids) heavy metal ions (Lead) can be set free.	
12.)	ECOLOGICAL INFORMATION		
	Persistence/Degradability:	Lead and lead containing products must not get into the environment. The contents of the solder paste without metal can be decomposed very easy.	
13.)	NOTICE FOR DISPOSAL		
	Product disposal:	Lead and lead containing products are special waste and have to be disposed according to national and local regulations.	
	Waste key number:	EAK 120 104 Bigger amounts are to be conducted to recycling.	
14.)	TRANSPORT INFORMATION	The product is authorized for all ways and means of transport.	
15.)	REGULATORY INFORMATIONS		
	Marking according to EU measures: Dangers icon:	Xi	
	R Phrases:	R 36/38 Irritating skins and eyes R 42/43 Sensitization through inhalation and contact with skin	
	S Phrases:	S 2 Shall not get into children's hands S 23 Don't inhale smoke and fumes S 24/25 Avoid contact with eyes or skin S 36/37 Wear safety gloves or glasses TRGS 505 Be aware of lead content	
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.	

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	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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