### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

11. Dezember 2013

#### Material Safety Data Sheet - Regulation 1907/2006/EC

#### INTERNATIONAL STANDARD NORM ISO 11014-1

Trad	le name: SS	Solder DIN EN			60Pb (	38Cu2		lux F			yp 1.1 .1	.3.B
1.)	MANUFACTURER Address:	EDSYN Finkenw D 97892	eg 2	2		A	_	l. 0934 x: 093	_	_		
2.)	HAZARDS IDENTIFICATION Hazard description:	The prod	duct	is not	classif	ied as	dange	erous.				
	Information concerning particular hazards for human and environment:	The product could cause burns during soldering. Its use during soldering may produce or release fumes which can be sensitizing to sensitive workers (no trace of lead in fumes at temperatubelow 500 ℃).  It is recommended to wear safety glasses, protective gloves, to wash hands after use and to work with a good ventilation of area, and suitab fumes extraction system locally installed.					can be emperatures					
	Prevention:											
	GHS label elements:	None										
3.)	COMPOSITION/INFORMATION ON INGREDIENTS	Produc (metal) Tin Copper Lead	ompe		7440- 7440- 7439-	-50-8	231-1 231-1 231-1	1 <b>ber</b> 41-8 59-6	R- Sätz - -	e	S- Sätze - - -	% See table below
		<b>Tin</b> % 60	9	<b>ead</b> %	Coppe %		lver %	Bism %		Ant	timony %	Cadmium %
		Flux composition:						l				
		Produ	it	N°C	AS	Nº	EC	Phra	ases R		ases S	%
		Modifie rosin		-		-		-	-		-	2,2% (nominal)
		Organi acid	С	124-0	04-9	204-6	373-3	Xi F	R36	S	52	Other: consult us
4.)	FIRST AID MEASURES  General information:	Take aff Take aff								dow	/n.	

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	After inhalation:	Take affected persons into fresh air.  If irritation persists, get medical attention.
	After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, get medical attention. If burns should occur from molten metal, treat for burn and get medical assistance if necessary.
	After eye contact:	Rinse opened eye for several minutes under running water. Get medical attention if irritation occurs.
	After swallowing:	Call for a doctor immediately. Do not induce vomiting unless directed to do so by medical personnel.
5.)	FIRE FIGHTING MEASURES	
	Non-flammable product	
	Suitable extinguishing agents:	Dry chemical powder, water spray or foam
	Extinguishing agents to avoid:	Do not use water jet on fire where molten metal is present.
	Special hazards caused by the substance, its products of combustion or resulting gases:	Molten metal produces fumes or vapours that may be sensitizing to sensitive persons (no Trace of lead in fumes at temperatures below 500 °C).
		Lead vapours may be given off above 500 ℃ if the product is in a nearby fire.
		Molten metal reacts violently with oxidising agents.
	Protective equipment:	Wear appropriate self-contained breathing apparatus. Do not inhale combustion gases. Wear full body protective clothing.
6.)	ACCIDENTAL RELEASE MEASURES:	
	Person-related safety precautions:	Remove persons from danger area. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust. Ensure adequate ventilation.
	Measures for environmental protection:	Do not allow to enter sewers/surface or ground water.
	Measures for cleaning/collecting:	After cooling, collect the released product and store it in sealed containers.
	Additional information:	Exposure levels indicated in section 8 are relevant to these and other operations.  See Section 7 for information on safe handling.  See Section 8 for information on personal protection equipment.  See Section 13 for disposal information.
7.)	HANDLING AND STORAGE	
	Handling:	Due to its density, the product is heavy. Avoid the fall of the product. Wear protective shoes.  S37 = Wear suitable gloves.
		Wash hands after handling.

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	Storage:	On spool, in original cardboard, at room temperature, keep away from inclemency.  S2 = Keep out of the reach of children.  S13 = Keep away from food, drink and animal feedings stuffs.					
.)	EXPOSURE CONTROLS/PERSONAL PROTECTION						
	Exposure control:	Permissible a	g/m3)				
		Product	PEL	REL	TLV		
		Tin	2,0	2,0	2,0		
		Copper	1 0,1 (fume)	1 0,1 (fume)	1 0,2 (fume)		
		Lead	0.05	< 0,1	0,05		
		REL = Recommended exposure limit (NIOSH) TLV = threshold Limit value (ACGIH) OSHA = Occupational Safety and Health Administration ACGIH - American Conference of Governmental Industrial Hygienists NIOSH = National Institute for Occupational Safety and Health					
		Substanz	CL50	CE50			
		Organic (96 h.) 97 mg/l, subspicatus (17 h.) 91,9 mg/l, Pse promelas (3 h.) 7,911mg/l, activ			cenedesmus seudomonas putida		
	Personal protective equipment:  General protective and hygienic measures:	This information is based on the regulatory in force at the time of its elaboration.  The usual precautionary measures are to be adhered to when handling chemicals: do not smoke and eat at work place. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes. Avoid contact with the eyes and skin.					
		1		n must be locally installed.			
	Respiratory protection:	Suitable fume	es extraction systen	i must be locally ins	stalled.		
	Respiratory protection: Protection of hands:		es extraction systen s are recommended	-	stalled.		
		Cotton gloves		i.	stalled.		

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9.)	PHYSICAL AND CHEMICAL PROPERTIES				
	Form:	Wire			
	State:	Solid			
	Colour: Application:	Silver For soft soldering			
	· · · · · · · · · · · · · · · · · · ·				
		Properties of alloys	T° solidus (°C)	T° liquidus (°C)	Density (g/cm³)
		Sn62Pb38Cu2	183	190	8,65
		Properties of fluxes	Acid numb	er Chlo	ride content
			(mg/g)		(%)
		С	170 to 210	)	< 0,01%
10.)	STABILITY AND REACTIVITY				
	Stability:	Stable under normal condition	ns of use and s	torage.	
	Conditions to avoid:	Strong oxidisers may cause v	riolent reaction.		
	Hazardous decomposition products:	No hazardous decomposition	under normal	conditions use	).
11.)	TOXICOLOGICAL INFORMATION				
	Eye contact:	May cause eye irritation due t	to the fumes du	ring soldering	
	Skin contact:	May cause skin irritation in ca soldering. It is recommended projections.			
	Inhalation:	Use of product during soldering heated rosin, which can be so lead in fumes at temperatures	ensitizing to ser	sitive workers	umes due to s (no trace of
	Acute toxicity:	No adverse health effect is ex	pected under r	normal conditi	ons of use.
12.)	ECOLOGICAL INFORMATIONS				
	General notes:	Do not allow product to reach system.	ground water,	water course	or sewage
13.)	DISPOSAL CONSIDERATIONS	Disposal must be made acco	rding to official	regulations.	
14.)	TRANSPORT INFORMATION				
	DOT regulations:	Hazard class: - Not regulated			
14.1)	Land transport ADR/RID (cross-border):	ADR/RID class: -Not regulate	ed.		

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14.2)	Maritime transport IMDG:	IMDG class: - Not regulated. Marine pollutant: No
14.3)	Air transport ICAO-TI and IATA-DGR:	ICAO/IATA class: - Not regulated.
15.)	REGULATORY INFORMATION	The product does not require a hazard warning label in accordance with EC directives regulations on dangerous substances.
16.)	OTHER INFORMATION	This material safety data sheet is entirely written in accordance with regulations in force.

The information in this Health and Safety Data Sheet is believed to be correct as of the date issued. EDSYN makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User s responsible for determining whether the EDSYN product is fit for a particular purpose and suitable for users method of use or application.