

EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

11.07.2019

### Material Safety Data Sheet - according to directive 1907/2006/EC

### INTERNATIONAL STANDARD NORM ISO 11014-1

	de Name: SSC	Solder wi DIN EN 2		Sn99	Cu1					29 454	∋ 1.1.3.B 4.1
1.)	<u>Manufacturer:</u> Address:	EDSYN GI Finkenweg D 97892 Ki	2			-		2 - 6413 2 - 6417	-		
2.)	COMPOSITIONS / INFORMATION ON INGREDIENTS	Product	Symt		CAS-No	\   I	EC-N	0	R-		S-
		(metal)	Synn	501	070-110	/ I	_0-110	0.	Phra	ises	Phrases
		Ťin	Sn		7440-31		231-1		-		-
		Copper	Cu		7440-50	)-8 2	231-1	59-6	-		-
		Alloys composition Sn99,3Cu0,7									
		Tin %	Le %		Copper %	Silv %	-	Bism %		An	timony %
		99,3	-		0,7	-		-			-
		Incorporated flux composition									
		Produ	ct	CAS	S-No.	EC-N	0.	R-		S-	%
		Modified	rosin		-	-		No	Phrases Phras Not classified hazardous		1,6
		Organic	acid	124	-04-9			Xi R3		S2	~ %
3.)	HAZARDS IDENTIFICATION	The product is not classified as dangerous. This product is nit classified as flammable. See the recommendations concerning the other products in the room.									
	Hazard description:	flammable.	t is not See th	t clas ne ree	sified as commend	dangei lations	ous. conce	This pr erning t	oduct the ot	is nit her pr	classified oducts in t
	Hazard description: Information concerning particular hazards for human and environment:	flammable.	See th	e re	commend se burns	lations during	concessolde	erning t	the ot s use	her produce during	oducts in t soldering
	Information concerning particular	flammable. room. The produc may produc	See th ct could ce or re mendeo	le re cau eleas d to v	commend se burns e fumes v vear safe work with	during which c ty glass n a goo	solde an be ses, p	ring. Its sensit	the ot s use tizing ve glo	her producing during to asth	oducts in t g soldering nmatic o wash
	Information concerning particular hazards for human and environment:	flammable. room. The produc may produc workers. It is recomm hands after	See th ct could ce or re mendeo	le re cau eleas d to v	commend se burns e fumes v vear safe work with	during which c ty glass n a goo	solde an be ses, p	ring. Its sensit	the ot s use tizing ve glo	her producing during to asth	oducts in t g soldering nmatic o wash
4.)	Information concerning particular hazards for human and environment: Prevention:	flammable. room. The produc may produc workers. It is recomm hands after fumes extra	See th ct could ce or re mendeo	le re cau eleas d to v	commend se burns e fumes v vear safe work with	during which c ty glass n a goo	solde an be ses, p	ring. Its sensit	the ot s use tizing ve glo	her producing during to asth	oducts in t g soldering nmatic o wash
4.)	Information concerning particular hazards for human and environment: Prevention: GHS label elements:	flammable. room. The produc may produc workers. It is recomm hands after fumes extra	See th ct could ce or re mendeo	le re cau eleas d to v	commend se burns e fumes v vear safe work with	during which c ty glass n a goo	solde an be ses, p	ring. Its sensit	the ot s use tizing ve glo	her producing during to asth	oducts in t g soldering nmatic o wash



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	After inhalation:	Take affected persons into fresh air. If irritation persists, get medical attention. In case of large quantities inhaled, remove from the exposure area. Wash nose and lips.
	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. No known hazardous reaction, wash with water and soap.
	After eye contact:	Rinse opened eye for several minutes under running water. Get medical attention if irritation occurs. Flush thoroughly with clear water; in case of persisting irritation seek an ophthalmologist.
	After swallowing:	Call for a doctor immediately. Do not induce vomiting unless directed to do so by medical personnel.
	Ingestion:	Seek medical advice.
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
		asthmatic persons. 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. Prefer handle with gloves.
	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 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 high 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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		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).					
	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 feedingsstuffs. Stow away from foodstuffs. Avoid the possibility of contact with acids.					
				possibility of con	itact with acids.		
	Conditioning materials:	Recyclable conta	iners.				
8.)	EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.2)	Exposure control:	(Germany) of w	orking place:				
		Product	max. concentrat of working place		Limit value		
		Tin	0,1 mg/m <sup>3</sup>		0,2 mg/m <sup>3</sup>		
		Copper	0,2 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dust)		2 mg/m³ (dust)		
		Permissible air co	oncentration (mg/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)		
	Additional information:	REL = Recomme TLV = threshold I OSHA = Occupat ACGIH = America	e exposure limit (OS ended exposure limit Limit value (ACGIH) tional Safety and Hea an Conference of Go Il Institute for Occupa	(NIOSH) alth Administratio vernmental Indu	strial Hygienists		
8.2)	Personal protective equipment:						
	Respiratory protection:	Suitable fumes extraction system must be locally installed. Take an air purifying respirator for limited operations where permissible exposure levels may be exceeded.					
	Protection of hands:	Cotton gloves are recommended.					
	Eye protection:						
	Body protection:	Protective work clothing is recommended: cotton blouse.					
	General protective and hygienic measures:	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 feet. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of wo Do not inhale gases / fumes. Avoid contact with the eyes and skin. Stric hygiene requirements will be prescribed at the workplace.					

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9.)	PHYSICAL AND CHEMICAL PROPERTIES					
	Form: State: Colour: Application:	Wire Solid Silver For soft soldering				
		Properties		° liquidus Density		
		Sn99,3Cu0,7	(℃) E 227	(°C) (g/cm³) 7,30		
		Properties of fluxes	Acid number (mg/g)	Chloride content (%)		
		F-SW32	392 à 432	0		
10.)	STABILITY AND REACTIVITY					
	Stability:	Stable under normal conditions	of use and storage	e.		
	Conditions to avoid:	Strong oxidisers may cause violent reaction. Mechanical and thermal operations giving rise to dusts or fumes without appropriate ventilation.				
	Hazardous decomposition products:	No hazardous decomposition u	inder normal condi	tions of use.		
	Materials to avoid:	Due to the toxic properties of lead salts, avoid accidental contact with acids, particularly with acetic acid.				
11.)	TOXICOLOGICAL INFORMATION					
	Eye contact:	May cause eye irritation due to	the fumes during s	soldering.		
	Skin contact:	May cause skin irritation in case of flux projections or fumes during soldering. It is recommended to wear cotton gloves to prevent burns projections.				
	Inhalation:	Use of product during soldering may produce or release fumes due to heated rosin, which can be sensitizing to asthmatic workers.				
	Acute toxicity:	No adverse health effect is expected under normal conditions of use.				
	Toxicological analyses:	This good is not concerned in it	ts final shape.			
12.)	ECOLOGICAL INFORMATION					
	General notes:	Do not allow product to reach g system. Sn/Cu alloy is a particu				
13.)	DISPOSAL COSINDERATIONS	Disposal must be made accord	ing to official regula	ations.		
	Surplus and wastes:	Collect all wastes.				
	Contaminated packaging:	Never use packaging for anoth	er purpose.			

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14.)	TRANSPORT INFORMATION	
	DOT regulations:	Hazard class: - Not regulated.
	Land transport ADR/RID (cross- border):	ADR/RID class: - Not regulated.
	Maritime transport IMDG:	IMDG class: - Not regulated.
	Air transport ICAO-TI and IATA-DGR:	ICAO/IATA class: - Not regulated.
		Not classified as dangerous goods by any international codes or agreements (RID/ADR, IMDG, IATA)
15.)	REGULATORY INFORMATIONS	The product does not require any 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 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.
	Abbreviations and acronyms:	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization " (ICAO) GHS: Globally Harmonized System of Classification and Labeling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

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