



02.12.2021

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

INTERNATIONAL STANDARD NORM ISO 11014-1

Trad	le Name: SSC	Solder wi DIN EN 29		Sn99	Cu1					Туре 29 454	e 1.1.3.B I.1	
1.)	<u>Manufacturer:</u> Address:	EDSYN GN Finkenweg D 97892 Kr	2				l.: 09342 x: 09342					
2.)	INGREDIENTS											
		Product (metal)	Sym	bol	CAS-No	0	EC-N	0.	R- Phra		S- Phrases	
		Tin	Sn		7440-3 ²	1-5	231-1	41-8	-		-	
		Copper	Cu		7440-50	0-8	231-1	59-6	-		-	
		Alloys com	Alloys composition Sn99,3Cu0,7									
		Tin %		ead %	d Copper S %		Silver %	Bismuth %		Ant	Antimony %	
		99,3		-	0,7		-	-			-	
		Incorporated flux composition										
		Produc	Product CAS-No.		S-No.	EC	-No.	R- Phrases		S- Phrases	%	
		Modified rosin Organic acid 12			-		-	Not classified hazardous		sified	1,6	
				124	-04-9	204-	204-673-3		36	S2	- %	
3.)	HAZARDS IDENTIFICATION Hazard description:	The product is not classified as dangerous. This product is nit classified as flammable. See the recommendations concerning the other products in the room										
	Information concerning particular	room. The product could cause burns during soldering. Its use during soldering may produce or release fumes which can be sensitizing to asthmatic workers.										
	hazards for human and environment:	may produc										
		may produc	e or r nende use a	eleas d to v nd to	e fumes wear safe work wit	whic ety gl	h can be asses, p jood ver	e sensi protecti	tizing t ve glo	to asth ves, to	matic wash	
	hazards for human and environment:	may product workers. It is recommendation hands after	e or r nende use a	eleas d to v nd to	e fumes wear safe work wit	whic ety gl	h can be asses, p jood ver	e sensi protecti	tizing t ve glo	to asth ves, to	matic wash	
4.)	hazards for human and environment: Prevention:	may product workers. It is recommended hands after fumes extra	e or r nende use a	eleas d to v nd to	e fumes wear safe work wit	whic ety gl	h can be asses, p jood ver	e sensi protecti	tizing t ve glo	to asth ves, to	matic wash	
4.)	hazards for human and environment: Prevention: GHS label elements:	may product workers. It is recommended hands after fumes extra	e or r nende use a	eleas d to v nd to	e fumes wear safe work wit	whic ety gl	h can be asses, p jood ver	e sensi protecti	tizing t ve glo	to asth ves, to	matic 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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	Storage: Conditioning materials:	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). 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. Recyclable containers.					
8.)	EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.2)	Exposure control:	Actueal limit value/max. concentration (Germany) of working pla					
		Product	max. concentrat	ion (Germany)	Limit value		
		Tin	0,1 mg/m ³		0,2 mg/m³		
		Copper	0,2 mg/m ³ (fume)				
			1 mg/m³ (dust)		2 mg/m³ (dust)		
		Permissible air c	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 OSHA = Occupa ACGIH = Americ	le exposure limit (OS ended exposure limit Limit value (ACGIH) tional Safety and Hea an Conference of Go al Institute for Occupa	(NIOSH) alth Administratio vernmental Indus	strial Hygienists		
8.2)	Personal protective equipment:						
	Respiratory protection:	Suitable fumes extraction system must be locally installed. purifying respirator for limited operations where permi exposure levels may be exceeded.					
	Protection of hands:	Cotton gloves a					
	Eye protection:	Safety glasses are recommended.					
	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 wor Do not inhale gases / fumes. Avoid contact with the eyes and skin. Strict hygiene requirements will be prescribed at the workplace.					

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9.)	PHYSICAL AND CHEMICAL			
,	PROPERTIES			
	Form: State:	Wire Solid		
	Colour:	Silver		
	Application:	For soft soldering		
		Properties	T° solidus T (°C)	° liquidus Density (°C) (g/cm³)
		Sn99,3Cu0,7	E 227	7,30
		Properties of fluxes	Acid number	Chloride content (%)
		F-SW32	(mg/g) 392 à 432	0
10.)	STABILITY AND REACTIVITY			
	Stability:	Stable under normal conditions	s of use and storage	e.
	Conditions to avoid:	Strong oxidisers may cause vid	ent reaction. Mech	nanical and thermal
		operations giving rise to dusts		
	Hazardous decomposition products:	No hazardous decomposition u	inder normal condit	tions of use.
	Materials to avoid:	Due to the toxic properties of le	ad salts, avoid acc	idental contact with
		acids, particularly with acetic a	cid.	
11.)	TOXICOLOGICAL INFORMATION			
,		May aques ave irritation due to	the fumee during a	oldoring
	Eye contact:	May cause eye irritation due to	-	-
	Skin contact:	May cause skin irritation in cas soldering. It is recommended to		
		projections.		
	Inhalation:	Use of product during soldering heated rosin, which can be ser		
			-	
	Acute toxicity:	No adverse health effect is exp	ected under norma	al conditions of use.
	Toxicological analyses:	This good is not concerned in i	ts final shape.	
12.)	ECOLOGICAL INFORMATION			
	General notes:	Do not allow product to reach g	round water water	r course or sowade
	General notes.	system. Sn/Cu alloy is a particular		
13.)	DISPOSAL COSINDERATIONS	Disposal must be made accord	ling to official regula	ations.
- ,			J	
	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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