### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

31.03.2022

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

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

Trac	de Name: SSC	Solder wi			9Cu1					Type 29 454	1.1.3.B .1
1.)	Manufacturer: Address:	EDSYN GMBH El Finkenweg 2 D 97892 Kreuzwe			Tel.: 09342				-		
2.)	COMPOSITIONS / INFORMATION ON INGREDIENTS										
		Product (metal)	Sym	ıbol	CAS-N	0	EC-N	0.	R- Phra		S- Phrases
		Tin	Sn		7440-3	1-5	231-1	41-8	-	-	-
		Copper	Cu		7440-5		231-1		-		-
		Alloys composition Sn99,3Cu0,7									
		Tin %		ead %	Coppe %	r S	Silver %	Bism %		Ant	imony %
		99,3		-	0,7		-	-			-
		Incorporated flux composition									
		Produc	ct	CA	S-No.	EC	-No.	R- Phras		S- Phrases	%
		Modified rosin			-	-		Not classified hazardous		1,6	
		Organic a	acid	124	-04-9	204-	673-3	Xi R	36	S2	70
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 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 asthmatic workers.									
	Prevention:	It is recommended to wear safety glasses, protective gloves, to was hands after use and to work with a good ventilation of area, and suit fumes extraction system locally installed.									
	GHS label elements:	None.									
4.)	FIRST AID MEASURES										
	Dusts and fumes										
	General information:	Take affect									

## Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

31.03.2022

	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.

### Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

31.03.2022

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.

**Conditioning materials:** Recyclable containers.

# 8.) <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

#### 8.2) Exposure control:

Storage:

Actueal limit value/max. concentration (Germany) of working place:

Product	max. concentration (Germany) of working place	Limit value		
Tin	0,1 mg/m³	0,2 mg/m <sup>3</sup>		
Copper	0,2 mg/m³ (fume)			
	1 mg/m³ (dust)	2 mg/m³ (dust)		

Permissible air concentration (mg/m3)

Product	PEL	REL	TLV
Tin	2,0	2,0	2,0
Copper	1	1	1
	0,1 (fume)	0,1 (fume)	0,2 (fume)

Additional information: PEL = Permissible exposure limit (OSHA)

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

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: 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 work. Do not inhale gases / fumes. Avoid contact with the eyes and skin. Strict

hygiene requirements will be prescribed at the workplace.

## Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

31.03.2022

	DUNGIONI AND QUENIONI				
9.)	PHYSICAL AND CHEMICAL PROPERTIES				
	Form: State: Colour: Application:	Wire Solid Silver For soft soldering			
		Properties		° liquidus Density	
		Sn99,3Cu0,7	(°C) 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 vid operations giving rise to dusts			
	Hazardous decomposition products:	No hazardous decomposition ι	ınder normal condi	tions of use.	
	Materials to avoid:	Due to the toxic properties of leacids, particularly with acetic a		cidental contact with	
11.)	TOXICOLOGICAL INFORMATION				
	Eye contact:	May cause eye irritation due to	the fumes during s	soldering.	
	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 system. Sn/Cu alloy is a partice			
13.)	DISPOSAL COSINDERATIONS	Disposal must be made accord	ling to official regula	ations.	
	Surplus and wastes:	Collect all wastes.			
	Contaminated packaging:	Never use packaging for anoth	er purpose.		

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31.03.2022

14.)	TRANSPORT INFORMATION		
	DOT regulations:	Hazard class: - Not regulated.	
	Land transport ADR/RID (crossborder):	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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