Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

28.03.2022

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

INTERNATIONAL STANDARD NORM ISO 11014-1

Trad	e Name: SACR	Solder wir DIN EN 29		Sn96	6,5 Ag3 (Cu0,		Flux F-9 NF EN 2			1.1.2 B
1.)	Manufacturer: Address:	EDSYN GM Finkenweg : D 97892 Kre	2					42 - 6413 42 - 6417	-		
2.)	COMPOSITIONS / INFORMATION ON INGREDIENTS.										
		Product (metal)	Sym	bol	CAS-No	Ph			R- Phra	ase	S- Phrase
		Tin	Sn		7440-31						
		Copper Silver	Cu Ag		7440-50 7440-22					-	
		Alloys comp		n Sn	96,5Ag30	Cu0,5	<u> </u>				
		Tin %	q	ad %	Copper %	S	Silver Bismu % 3 -)	Ant	imony %
		96,5		-	0,5						-
		Incorporated flux composition									
		Produc	t	CA	S-No.	EC-	No.	R- Phrase	S- Phra		%
		Modified ro	osin	805	50-09-7	-		Not cla haza	assifie rdous	a l	2,2% nominal) Other: consult us.
3.)	HAZARDS IDENTIFICATION										
	Hazard description:	The product is not classified as dangerous. This alloy contains lead. Industrial use only. Keep children away. Avoid contact with basics, acids and oxidizing chemicals. Hazardous reactions with mineral acids: sulfuric acids, phosphoric, nitric (concentred). No hazardous reaction when normally used. The product could cause burns during soldering. Its use during soldering may produce or release fumes which can be sensitizing to asthmatic workers. This product is stable.									
	Information concerning particular hazards for human and environment:										
	Prevention:	It is recommended to wear safety glasses, protective gloves, to wash hands after use and to work with a good ventilation of area, and suitable fumes extraction system locally installed.									
	GHS label elements:	None									

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4.)	FIRST AID MEASURES	
	General information:	Take affected persons out into the fresh air. Take affected persons out of danger area and lay down.
	After inhalation:	Take affected persons into fresh air. If irritation persists, get medical attention. Always carry out soldering and melting operations in well ventilated areas to prevent a concentration of fumes higher to the MAC values.
	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. Burns: cool affected parts under running water. Do not remove adhering material, apply a sterile dressing and seek medical advice. May cause sensitisation by skin contact.
	After eye contact:	Rinse opened eye for several minutes under running water. Get medical attention if irritation occurs. Immediately flood the eye with plenty of water for at least 15 minutes. Obtain medical attention.
	After swallowing:	Call for a doctor immediately. Do not induce vomiting unless directed to do so by medical personnel.
	Ingestion:	Do not give water when unconscious. Keep warm and at rest.
5.)	FIRE FIGHTING MEASURES	Non-flammable product
	Suitable extinguishing agents:	Dry chemical powder, water spray or foam (CO ₂), Alcohol resistant 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. Wear appropriate protective clothing.
	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. Wash the contamined surface with an organic solvant or a detergent. Transfer into suitable containers for recovery or disposal.
	Additional information:	Exposure levels indicated in section 8 are relevant to these and other operations.

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	Environmental precaution:	See Section 8 See Section 13 Residues shou prevent the ma	for information on safe handling. for information on personal protection e for disposal information. Id be stored in closed containers. Extra terial from entering drains or water cou cordance with local states.	ct fumes. Try to			
7.)	HANDLING AND STORAGE						
7.1)	HANDLING:	Wear protective S37 = Wear su	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.				
	Measures for safety handling	Extract fumes of that people wo	Ensure efficient local air ventilation or extraction systems at the workplace. Extract fumes during the melting. Avoid breathing metal fumes. Make sure that people work in safety conditions. Do not drink, do not smoke in soldering areas.				
	Using advices:	phosphoric acid	ctions with concentrated sulfuric acid, of d and concentrated nitric acid. ad fumes above 500°C. Lead is harmfu ystem or skin.				
7.2)	STORAGE:	inclemency. S2 = Keep out	iginal cardboard, at room temperature, of the reach of children. vay from food, drink and animal feeding				
	Conditions of storage and protective equipment	Storage area s exposure and h	hould be at ambient temperature (20°C neating.	-25°C). Avoid sun			
	Incompatible materials	Strong oxidizin	g chemicals.				
	Recommended packaging	Store in origina * plastics PP or	ıl containers. r PE, recyclable polypropylen spools, re	ecyclable containers			
	Not advisable:	* metallic (as a	luminum).				
	Classification reference:	Page 13 accord	Page 13 according to VCI				
	EXPOSURE CONTROLS / PERSONAL PROTECTION						
8.1)	Exposure control	Actual limit valu	Actual limit value/max. concentration (Germany) of working place:				
		Product	max. concentration (Germany) working place	of Limit value			
		Tin	0,1 mg/m³	0,2 mg/m ³			
		Copper	0,2 mg/m³ (fume) 1 mg/m³ (dust)	2 mg/m³ (dust)			
		Silver	0,1 mg/m³ (metal)	-			

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		Product	PEL	REL	Т	LV		
		Tin	2,0	2,0		.,0		
		Copper	1		1	1		
			0,1 (fun	ne) 0,1 (fume)	0,2 (fume)		
		Silver	0,01	0,	01	0,1		
	Additional information:	TLV = threshold OSHA = Occup ACGIH = Amer	nended exposu d Limit value (A pational Safety a ican Conferenc	re limit (NIOSH)	inistration Ital Industrial			
2)	Personal protective equipment							
	General protective and hygienic measures:	The usual precautionary measures are to be adhered to whe chemicals: do not smoke, drink 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						
	Respiratory protection:	Suitable fumes	extraction syst	em must be loca	ılly installed.			
	Hand protection:	Cotton gloves are recommended.						
	Eye protection:	Safety glasses	are recommend	ded.				
	Body protection:	Protective work	colothing is reco	ommended: cott	on blouse.			
•	PHYSICAL AND CHEMICAL PROPERTIES							
.1)	Physical properties	Binary alloy n° 2 according to NF EN 29453 Standard						
	Form: Physical state Colour: Application: Odour:	wire Solid silver metal For soft solderi none	Solid silver metal For soft soldering					
		Properties		T° Solidus (°C)	T° Liquidus	Densi (g/cm		
		Sn96,5Ag3Cu	10,5	E 2		7,4		
		Properties of	fluxes	Acid number	Chloric	de content (°		
		CMA		(mg/g) 147,6 to 159,4	0.49	93 to 0,567		
		3,777	L	2,0 (0 100,4		2 2 2 0,007		
.)	STABILITY AND REACTIVITY							
•	Stability:	Stable under no	ormal condition	s of use and sto	rage.			
	•	1			5			

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Hazardous decomposition products: Materials to avoid: Powerful oxidizing chemicals. 11.) TOXICOLOGICAL INFORMATION Eye contact: May cause eye irritation due to the fumes during sold soldering. It is recommended to wear cotton gloves to projections. Inhalation: Use of product during soldering may produce or releatheated rosin, which can be sensitizing to asthmatic water downward. Acute toxicity: No adverse health effect is expected under normal construction. ECOLOGICAL INFORMATION General notes: Do not allow product to reach ground water, water consystem. Tin and lead are not biodegradable and cannow water pollution: Water pollution: Water pollution is water courses.	ering. fumes during prevent burns by ase fumes due to porkers.
11.) TOXICOLOGICAL INFORMATION Eye contact: May cause eye irritation due to the fumes during sold May cause skin irritation in case of flux projections or soldering. It is recommended to wear cotton gloves to projections. Inhalation: Use of product during soldering may produce or releatheated rosin, which can be sensitizing to asthmatic work. No adverse health effect is expected under normal content of the sense of the sensitizing to asthmatic work. 12.) ECOLOGICAL INFORMATION General notes: Do not allow product to reach ground water, water content of the sensitizing to asthmatic work. The sensitizing to asthmatic work. Water pollution: Water pollution: Water pollution: Water pollution: Way cause eye irritation due to the fumes during sold the function of the sensitization of the sensitization of the function of the sensitization of the sensitiza	fumes during or prevent burns by ase fumes due to orkers.
Eye contact: May cause eye irritation due to the fumes during sold May cause skin irritation in case of flux projections or soldering. It is recommended to wear cotton gloves to projections. Use of product during soldering may produce or releatheated rosin, which can be sensitizing to asthmatic water toxicity: No adverse health effect is expected under normal control of the sensitive of the	fumes during or prevent burns by ase fumes due to orkers.
Skin contact: May cause skin irritation in case of flux projections or soldering. It is recommended to wear cotton gloves to projections. Use of product during soldering may produce or release heated rosin, which can be sensitizing to asthmatic work. No adverse health effect is expected under normal contact. 12.) ECOLOGICAL INFORMATION General notes: Do not allow product to reach ground water, water consystem. Tin and lead are not biodegradable and cannot water pollution: Water pollution: Water pollution product: WGK. Do not allow to reach	fumes during or prevent burns by ase fumes due to orkers.
soldering. It is recommended to wear cotton gloves to projections. Inhalation: Use of product during soldering may produce or releatheated rosin, which can be sensitizing to asthmatic work. No adverse health effect is expected under normal control of the sense of	o prevent burns by ase fumes due to orkers.
heated rosin, which can be sensitizing to asthmatic w Acute toxicity: No adverse health effect is expected under normal co 12.) ECOLOGICAL INFORMATION General notes: Do not allow product to reach ground water, water co system. Tin and lead are not biodegradable and cann Water pollution: Water pollution: Water polluting product: WGK. Do not allow to reach	orkers.
12.) ECOLOGICAL INFORMATION General notes: Do not allow product to reach ground water, water co system. Tin and lead are not biodegradable and cann Water pollution: Water pollution: Water pollution:	onditions of use.
General notes: Do not allow product to reach ground water, water co system. Tin and lead are not biodegradable and cann Water pollution: Water pollution: Water polluting product: WGK. Do not allow to reach	
system. Tin and lead are not biodegradable and cann Water pollution: Water pollution: Water pollution:	
	the ground water,
13.) <u>DISPOSAL CONSIDERATIONS</u> Disposal must be made according to official regulation	ns.
14.) TRANSPORT INFORMATION	
DOT regulations: Hazard class: Not regulated. Not hazardous product in	regarding transport
14.1) Land transport: >>> ADR,RID (cross border) ADR/RID class: Not regulated.	
14.2) Air transport >>>IATA-DGR IATA Class: Not regulated.	
15.) REGULATORY INFORMATION The product does not require any hazard warning lab EC directives on dangerous substances.	el in accordance with
16.) OTHER INFORMATION This material safety data sheet is entirely written in accregulations in force.	ccordance with
The relevant data sheet is applicable here. The information contained here in is based on data countries and is offered at no charge.	onsidered accurate
Our aim, by providing the above information which restatus of our knowledge and experience is to describe of safety requirements. Liability is expressly disclaimed for loss or injury arising information or the use of any materials designated. Supplementary copies of this data sheet are available.	e our product in terms

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Abbreviations and acronyms:

<u>ADR</u>: European Agreement concerning the International Carriage of Dangerous Goods by Road.

<u>RID</u>: Regulations Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

<u>IATA-DGR</u>: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

<u>ICAO-TI</u>: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

<u>GHS</u>: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS. European Inventory of Existing Commercial Chemical Substances

<u>CAS</u>: Chemical Abstracts Service (division of the American Chemical Society)

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