Zentrum für Löt- und Entlötsysteme



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

Trad	le Name: SSALC	Solder wi		99 A	\g0,3 C	u0,7				? Type 29 454	1.1.3.B .1
1.)	<u>Manufacturer:</u> Address:	EDSYN GN Finkenweg D 97892 Kr	2			_	.: 09342 k: 09342		-		
2.)	COMPOSITION / INFORMATION ON INGREDIENTS	Product (Metall)	Sym	n	CAS-N	1-5	EC-N	41-8		ises I	S- Phrases
		Silver Copper	A _C		7440-2 7440-5		231-1 231-1		-	-	-
		Alloys com	Alloys composition Sn99Ag0,3Cu0.7								
		Tin %		ead %	Coppe %	r S	Silver %	Bism %			mony %
		99		-	0,7		0,3	-			-
Incorpo				comp	oosition						
		Produc	ct	CAS	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 R3		S2	%
3.)	HAZARDS IDENTIFICATION										
,	Hazard description:	The product flammable.	t is no	t clas	ssified as	danç	gerous.	This pr	oduct	is not	classed as
	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. 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. See the recommendations concerning the other products in the room.									
	Prevention:										
	GHS label elements:	None									
4.)	FIRST AID MEASURES General information:	Take affected persons out into the fresh air. Take affected persons out of danger area and lay down.									

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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 asthmatic persons. Molten metal reacts violently with oxidising agents.
	Protective equipment:	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. Collect the product.
	Measures for cleaning/collecting:	After cooling, collect the released product and store it in sealed containers. Not relevant due to the massive form of the product.
	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	
7.1)	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.
7.2)	Storage:	Stow away from foodstuffs. Avoid the possibility of contact with acids. 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.

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8.)	EXPOSURE CONTROLS / PERSONAL
,	PROTECTION

8.1) Exposure control:

Permissible air concentration (mg/m3)

Product	PEL	REL	TLV
Tin	2,0	2,0	2,0
Silver	0,01	0,01	0,1
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:

Air purifying respirator for limited operations where permissible exposure levels may be exceeded. Suitable fumes extraction system must be locally installed.

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Hand protection: Cotton gloves are recommended.

Eye protection: Safety glasses or facial shield (if ejections may occur), are recommended.

Body/Skin protection:

Appropriate protective clothing. Protective work clothing is recommended : cotton blouse.

General protective and hygienic

measures:

Strict hygiene requirements will be prescribed at the workplace. 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.

9.) PHYSICAL AND CHEMICAL PROPERTIES

Form: State: Colour: Appliction: Wire Solid Silver

For soft soldering

Properties	T° solidus	T° liquidus	Density
	(℃)	(℃)	(g/cm³)
Sn99Ag0,3Cu0,7	217	228	7,3

Properties of fluxes	Acid number (mg/g)	Chloride content (%)
F-SW32	392 bis 432	0

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10.)	STABILITY AND REACTIVITY	
	Stability:	Stable under normal conditions of use and storage.
	Conditions to avoid:	Mechanical and thermal operations giving rise to dusts or fumes without appropriate ventilation. Strong oxidisers may cause violent reaction.
	Materials to avoid:	Due to the toxic properties of lead salts, avoid accidental contact with acids, particularly with acetic acid.
	Hazardous decomposition products:	No hazardous decomposition under normal conditions of use.
11.)	TOXICOLOGICAL INFORMATION	
	Eye contact:	May cause eye irritation due to the fumes during 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 by 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 its final shape.
12.)	ECOLOGICAL INFORMATION	
	General notes:	Do not allow product to reach ground water, water course or sewage system. Sn/Ag/Cu alloy is a particularly corrosion proof metal.
13.)	DISPOSAL CONSIDERATIONS	Disposal must be made according to official regulations.
	Surplus and wastes:	Collect all wastes.
	Contaminated packaging:	Never use packaging for another purpose.
14.)	TRANSPORT INFORMATION	Not classified as dangerous goods by any international codes or agreements (RID/ADR, IMDG, IATA)
14.1)	Land transport ADR/RID (cross- border):	agreements (TID/ADIT, INIDO, IATA)
	>>>> ADR, RID class:	Not regulated.
14.2)	Air transport IATA-DGR: >>>> IATA class:	Not regulated.
14.3)	Maritime transport IMDG: >>>> IMDG class:	Not regulated.
	DOT regulations: >>>> Hazard class:	Not regulated.
15.)	REGULATORY INFORMATION	The product does not require any hazard warning label in accordance with EC directives regulations on dangerous substances.
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16.) OTHER INFORMATION

This material safety data sheet is entirely written in accordance with regulations in force.

This safety data sheet provides additional information to the technical leaflet but it does not replace it. The given information is honestly developed from our current knowledge of the product. User's attention is strongly drawn to the possible risks in using a product for other uses it is made for. It does not exempt, in any case, the user to know and comply with the texts regulating its activity. All the mentioned regulatory, in item 15 particularly, only aim at helping the recipient to fulfill its obligations when using the product.

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 Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical

Substances

CAS: Chemical Abstracts Service (division of the American Chemical

Society)

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