Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

16.07.2014

Material Safety Data Sheet - according to directive 91/155/EWG

INTERNATIONAL STANDARD NORM ISO 11014-1

MANUFACTURER				141	EN 29 454.1
Address:	EDSYN GMBH Finkenweg 2 D 97892 Kreuz			9342 - 6413 9342 - 6417	
HAZARDS IDENTIFICATION	The information in this section is applicable on all mentioned identified uses in this SDS.				
Classification and general hazards Fire hazard: NFPA-code:	Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC. None 1-1-0				
Environmental hazards Ecology - general: Ecology - water: Ecology - waste materials: Other dangers Other dangers:	The solder wire is not biodegradable and may therefore not be disposed in the environment. Flux used for solder wire is readily biodegradable - Metals are not biodegradable and may therefore not be disposed in the environment. Do not discharge into surface water - Do not discharge into the sewer - Recycle/reuse - LWCA (the Netherlands): KGA category 05 The product is not hazardous as supplied nor is it hazardous when handled under normal conditions. This product may become hazardous in use and the information in this data sheet reflects the hazards associated with solder operations. Work under local exhaust/ventilation.				
COMPOSITION / INFORMATION ON INGREDIENTS Name: EC N°: REACH:	F-SW-34 All components are EINECS listed. All components are pre-registered according to REACH regulations.				
	·				_
				WEIGHT %	Classification
				*)	-
	copper	7440-50-8	231-159-6	*)	
	flux	-	-	1.6 ± 0.2	-
		l dend on the re	 espective alloy	 (see alloy over\	view)
	Alloy	Alloy Tip % wt Silve			Copper % wt
			Rest	3.8 ± 0.2	0.7 ± 0.2
FIRST AID MEASURES Effects and symptoms Symptoms / injuries: Symptoms / injuries after eye contact:	The information in this section is applicable on all mentioned identified uses in this SDS. Handle in accordance with good industrial hygiene and safety practice. In case of splash from hot solder, irritation to the eyes and if not removed, may result in serious injury – Vapours produced during soldering				
	Fire hazard: NFPA-code: Environmental hazards Ecology - general: Ecology - water: Ecology - waste materials: Other dangers Other dangers: COMPOSITION / INFORMATION ON INGREDIENTS Name: EC N°: REACH: FIRST AID MEASURES Effects and symptoms Symptoms / injuries:	Classification and general hazards Fire hazard: NFPA-code: Environmental hazards Ecology - general: Ecology - water: Ecology - waste materials: Other dangers Other dangers: COMPOSITION / INFORMATION ON INGREDIENTS Name: EC N°: REACH: F-SW-34 All components All components tin silver copper flux incorporated *) Weight depend Alloy Sn95,5Ag3,8Cd FIRST AID MEASURES Effects and symptoms Symptoms / injuries: Symptoms / injuries after eye contact: Not classified a 67/548/EEC ar None 1-1-0 The solder wire the environmenter he environmenter the environmenter he environmenter he environmenter Recycle/reuse The product is handled under use and the inf with solder ope Components tin silver copper flux incorporated *) Weight depend Alloy Sn95,5Ag3,8Cd FIRST AID MEASURES Effects and symptoms Symptoms / injuries: Symptoms / injuries after eye contact:	Classification and general hazards Fire hazard: NFPA-code: Environmental hazards Ecology - general: Ecology - water: Cother dangers: Other dangers: Other dangers: COMPOSITION / INFORMATION ON INGREDIENTS Name: EC N°: REACH: F-SW-34 All components are EINEC All components are pre-region flux incorporated *) Weight dependend on the results in formation in this sect uses in this SDS. FIRST AID MEASURES Effects and symptoms Symptoms / injuries: Symptoms / injuries after eye contact: Not classified as dangerous 67/548/EEC and/or 1999/4 None 1-1-0 The solder wire is not bloods the environment. Flux used for solder wire is biodegradable and may the Do not discharge into surfar Recycle/reuse - LWCA (the The product is not hazardo handled under normal conduse and the information in with solder operations. Wo	Classification and general hazards Fire hazard: NFPA-code: Environmental hazards Ecology - general: Ecology - water: Ecology - waste materials: Other dangers Other dangers: Other dangers: The product is not biodegradable and the environment. Flux used for solder wire is readily biode biodegradable and may therefore not be Do not discharge into surface water - Do Recycle/reuse - LWCA (the Netherlands Recycle/reuse - LWCA (the Netherlands Recycle/reuse - LWCA) The product is not hazardous as supplied handled under normal conditions. This puse and the information in this data she with solder operations. Work under local and the information in this data she with solder operations. Work under local All components are EINECS listed. All components are EINECS listed. All components are pre-registered accordance with good industring flux incorporated ") Weight dependend on the respective alloy Alloy Tin % wt Sn95,5Ag3,8Cu0,7 Rest The information in this section is applications in case of splash from hot solder, irritation may result in serious injury – Vapours pi	Classification and general hazards Fire hazard: NFPA-code: Environmental hazards Ecology - general: Ecology - water: Cology - waste materials: Other dangers Other dangers: Other dangers: Other dangers: The product is not hazardous as supplied nor is it haz handled under normal conditions. This product may buse and the information in this data sheet reflects the with solder operations. Work under local exhaust/vent COMPOSITION / INFORMATION ON INGREDIENTS Name: EC N°: REACH: F-SW-34 All components are EINECS listed. All components are pre-registered according to REAC Components CAS N° EC N° WEIGHT % tin 7440-31-5 231-141-8 1, silver 7440-22-4 231-131-3 1, copper 7440-50-8 231-159-6 1) flux 1 copper 7440-50-8 231-159-6 1) flux 2 copper 7440-50-8 231-159-6 1) flux 3 copper 7440-50-8 231-159-6 1) flux 2 copper 7440-50-8 231-159-6 1) flux 3 copper

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from molten metal, wash affected skin areas with copious amounts of running water. Further treatment of the burn. – Soap may be used – Ta victim to a doctor if irritation persists. Rinse immediately with plenty of water – Take victim to an ophtalmologif irritation persists. Dilute stomach contents with water or milk. Do NOT induce vomiting. A for medical advice. No information available. 5.) FIRE FIGHTING MEASURES General measures: Extinguishing agents – fire fighting instructions: Fire hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): Other information (fire fighting): ACCIDENTAL RELEASE MEASURES 6.1) Protective measures: General measures: Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.			10.07.2014
Remove the victim into fresh air – Respiratory problems: consult a doctor/medical service. Lead-free solder alloys are not likely to have a harmful effect on the ski Wash hands immediately after handling the product – in case of splasify from molten metal, wash affected skin areas with copious amounts of running water. Further treatment of the burn. – Soap may be used – Ta victim to a doctor if irritation persists. First aid measures after eye contact: First aid measures after ingestion: A.3) Medical advice Soap may be used – Ta victim to a doctor if irritation persists. Dilute stomach contents with plenty of water – Take victim to an ophtalmolog if irritation persists. Dilute stomach contents with water or milk. Do NOT induce vomiting. A for medical advice. No information available. FIRE FIGHTING MEASURES General measures: Extinguishing agents – fire fighting instructions: Fire hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): Massive metal and the oxides are not combustible. The information in this section is applicable on all mentioned identified uses in this SDS. Not applicable for solder wire. Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): The information of metallic fumes/vapours. Gloves – Heat resistant gloves – Heat/fire exposure: compressed air/oxygen apparatus. Massive metal and the oxides are not combustible. ACCIDENTAL RELEASE MEASURES The information in this section is applicable on all mentioned identified uses in this SDS. Not applicable for solder wire. Not applicable for solder wire.	•	Symptoms / injuries after skin contact:	The melted product adheres to the skin and causes burns.
Wash hands immediately after handling the product – In case of splast from molten metal, wash affected skin areas with copious amounts of running water. Further treatment of the burn. – Soap may be used – Take victim to a doctor if irritation persists. First aid measures after eye contact: First aid measures after ingestion: 4.3) Medical advice No information available. 5.) FIRE FIGHTING MEASURES General measures: Extinguishing agents – fire fighting instructions: Fire hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): Other information (fire fighting): ACCIDENTAL RELEASE MEASURES Canal measures: Canal measures: Canal measures: Canal measures: Canal measures: Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.	Í	First aid measures after inhalation:	doctor/medical service.
First aid measures after eye contact: First aid measures after ingestion: Rinse immediately with plenty of water – Take victim to an ophtalmolog if irritation persists. Dilute stomach contents with water or milk. Do NOT induce vomiting. A for medical advice. 4.3) Medical advice No information available. The information in this section is applicable on all mentioned identified uses in this SDS. Reacrivity hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): Other information (fire fighting): ACCIDENTAL RELEASE MEASURES Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.	'	First aid measures after skin contact:	Wash hands immediately after handling the product – In case of splash from molten metal, wash affected skin areas with copious amounts of running water. Further treatment of the burn. – Soap may be used – Take
First aid measures after ingestion: 4.3) Medical advice No information available. The information in this section is applicable on all mentioned identified uses in this SDS. General measures: Extinguishing agents – fire fighting instructions: Fire hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): Other information (fire fighting): The information in this section is applicable on all mentioned identified uses in this SDS. Not applicable for solder wire. Never use water near molten metal. FIRE EXTINGUISHING MEDIA D powder Dry sand None Upon burning: formation of metallic fumes/vapours. Gloves – Heat resistant gloves – Heat/fire exposure: compressed air/oxygen apparatus. Massive metal and the oxides are not combustible. 6.) ACCIDENTAL RELEASE MEASURES The information in this section is applicable on all mentioned identified uses in this SDS. 6.1) Protective measures General measures: Not applicable for solder wire. No information available. Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.	I	First aid measures after eye contact:	Rinse immediately with plenty of water – Take victim to an ophtalmologist
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General measures: Extinguishing agents – fire fighting instructions: Fire hazard: Reactivity hazard: Personal protection (Emergency response): Other information (fire fighting): General measures: Other information (fire fighting): Gloves – Heat resistant gloves – Heat/fire exposure: compressed air/oxygen apparatus. Massive metal and the oxides are not combustible. General measures: Not applicable for solder wire. Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.	4.3) I	Medical advice	No information available.
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Disposal: Carefully collect the spill/leftovers – Collect all waste in suitable and labelled containers and dispose according to local legislation.	6.2) I	Environmental measures:	No information available.
Methods for cleaning: If melted: allow liquid to solidify before taking it up – Do not discharge in			
groundwater, surface water or sewerage.	ı	Methods for cleaning:	If melted: allow liquid to solidify before taking it up – Do not discharge into groundwater, surface water or sewerage.
6.4) Other information No information available.	6.4) (Other information	No information available.
7.) HANDLING AND STORAGE	7.) <u>l</u>	HANDLING AND STORAGE	
7.2) Storage	7.2)	Storage	

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Storage area: Store at ambient temperature. Store in a dry area.

Maximal storage time: 2 years **LGK Storage class: LGK 13**

7.3) Special use(s) and requirements No information available.

Handling and storage information is applicable on all mentioned identified

uses in this SDS.

Consistency of data in the SDS with CSR is considered, as far as the information was available at the time of compilation (cfr revision date and version number).

8.) **EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure information 8.1)

Component:

CAS N°: 7440-31-5 Limit value name: Tin (metal)

Limit value (mg/m³): VME name: Etain VME (mg/m³): 0.1VLE (mg/m³): 0.2 TLV name: Tin Metal

2

TLV-TWA (mg/m³):

Component: silver 7440-22-4 CAS N°: Limit value name: Silver (metal) Limit value (mg/m³): 0.1

MAK Short time value (mg/m³): 0.8 E/15'/4x MAC name: Silver

MAC (mg/m³): 0.1 VME name: Argent (mètal)

VME (mg/m³): 0.1

TLV name: Silver Metal

TLV-TWA (mg/m³): 0.1

Component: Copper CAS N°: 7440-50-8

Limit value name: Copper (rook, stof & nevel as Cu)

Limit value (mg/m³): 0.2

MAK Short time value (mg/m³): 0.2 E/15'/4x MAC name: Copper

MAC (mg/m³): 0.1 I (inhalable fraction)

VME name: Cuivre (fumées/poussières en Cu)

VME (mg/m³):

TLV name: Copper (fume, dust & mists, as Cu)

TLV-TWA (mg/m³): 2.2

8.2) Exposure control – Risk management

measures

Handling the product:

Vapours produced during soldering operations. Avoid breathing dust/fume. Work under local exhaust/ventilation. Lead-free solder alloys are not likely to have a harmful effect on the skin. Wash hands immediately after

handling the product.

Personal protection (Material-

Handling): Safety glasses

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		Gloves Heat resistant gloves if handling hot metal
8.3)	Environmental exposure control –	
0.0,	Risk management measures	No information available.
8.4)	Technical risk management measures	No information available.
9.)	PHYSICAL AND CHEMICAL PROPERTIES	
9.1)	General information Appearance: State of aggregation: Odour: Colour:	Solid wire Solid Odourless Silvery-white to grey
9.2)	Important health, safety & environmental info Flashpoint: Relative density: Melting point:	(Flux) 170° C Sn95,5Ag3,8Cu0,7: 7.5 g/cm³ IEC-EN-61190-1-3: Sn95,5Ag3,8Cu0,7: 217° C - 226° C
9.3)	Other information Solubility in water:	Insoluble
		All properties are determined in accordance with the specifications laid down in the Commission Regulation on testing methods referred to in Article 13 paragraph 3 or any other comparable method.
10.)	STABILITY AND REACTIVITY	The information in this section is applicable on all mentioned identified uses in this SDS.
10.1)	Stability Instability:	Stable under normal conditions.
10.2)	Conditions to avoid Conditions to avoid: Reactivity hazard:	High temperatures. Will emit toxic metallic oxides. Upon burning: formation of metallic fumes/vapours.
10.3)	Materials to avoid	No information available.
10.4)	Hazardous decomposition products Hazardous decomposition products:	Tin, copper and silver compounds.
11.)	TOXICOLOGICAL INFORMATION	The information in this section is applicable on all mentioned identified uses in this SDS.
11.1)	Toxicity Component: LD50 oral rat: LD50 dermal rat:	silver > 10000 mg/kg > 2000 mg/kg
11.2)	Effects and symptoms Symptoms / injuries:	Handle in accordance with good industrial hygiene and safety practice.
	Symptoms / injuries after skin contact:	The melted product adheres to the skin and causes burns.
	Symptoms / injuries after eye contact:	In case of splash from hot solder, irritation to the eyes and if not removed,

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		may result in serious injury - Vapours produced during soldering
		operations can give slight irritation of the eye tissue.
12.)	ECOLOGICAL INFORMATION	The information in this section is applicable on all mentioned identified uses in this SDS.
12.1)	Ecotoxicity	
	a) LC50 / EC50 Component:	tin
	EC50 Daphnia 1:	1,5 mg/l (504 h, DAPHNIA MAGNA)
	EC50 other aquatic organisms 1:	21,23 mg/l (96 h, TUBIFEX TUBIFÉX) 42 mg/l (48 h, DAPHNIA MAGNA)
	b) BCF	
	Component:	tin
	BCF fishes 2:	< 0,00036 mg/g (PISCES, DRY WEIGHT)
	c) TLM	No information available.
12.2)		The colder wire is not binder and bloom debte and many thousand in the dispersed in
	Ecology - general:	The solder wire is not biodegradable and may therefore not be disposed in the environment.
	Ecology - waste materials:	Do not discharge into surface water - Do not discharge into the sewer - Recycle/reuse - LWCA (the Netherlands): KGA category 05
	Ecology - water:	Flux used for solder wire is readily biodegradable - Metals are not biodegradable and may therefore not be disposed in the environment.
12.3)	Persistence and degradability	
'	Component:	tin
	WGK remark:	No water pollutant (classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)).
	Component:	silver
	WGK remark:	3
	Component:	copper
	WGK remark:	No water pollutant (classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)).
12.4)	Bioaccumulation	No information available.
12.5)	Results of PBT assessment	No information available.
12.6)	Other information	No information available.
13.)	DISPOSAL CONSIDERATIONS	
	Ecology - general:	The solder wire is not biodegradable and may therefore not be disposed in
	Lcology - general.	the environment.
	Ecology - waste materials:	Do not discharge into surface water - Do not discharge into the sewer - Recycle/reuse - LWCA (the Netherlands): KGA category 05.
	EURAL:	10 08 11 - dross and skimmings other than those mentioned in 10 08 10.
14.)	TRANSPORT INFORMATION	
-		
14.1)	ADR (Road transport) ADR transport regulations:	Not subject

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State during transport (ADR-RID):

Proper Shipping Name:

Rail and road transport: not subject to ADR-RID Non-hazardous goods

14.2) RID (Railway transport)

RID class:

RID transport regulations:

Proper Shipping Name:

Not subject Not subject

Non-hazardous goods

14.3) ADNR (Inland waterways shipping)

ADNR class:

Proper Shipping Name:

Not subject

Non-hazardous goods

14.4) IMDG (Sea transport)

IMDG transport regulations:

Proper Shipping Name:

Not subject

Non-hazardous goods

14.5) ICAO / IATA (Air transport) ICAO transport regulations:

Proper Shipping Name:

Not subject

Non-hazardous goods

Additional rules to be obtained at EDSYN

GMBH EUROPA

Remark:

Above mentioned regulations are in force at the moment of publication of this (SDS) safety data sheet. With reference to possible modifications in transport regulations of dangerous goods, we advise you to verify its validity at EDSYN GMBH EUROPA.

15.) **REGULATORY INFORMATION**

15.1) Components indicating danger classification

Label name:

Not classified as dangerous.

15.2) Classification and labelling

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC.

15.3) Compliancy additional legislation

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC.

16.) OTHER INFORMATION

SDS Version: Review date SDS: SDS revision reason: Other information:

2.0/ED 01/10/2009

Reach regulation 1907/2006 Annex II

Intrastat code 8311 30 00

The information in this Material Safety Data Sheet (SDS) is believed to be correct as of the date issued. Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed are sold without such warranty, either expressed or implied.