EDSYN GMBH EUROPA
Zentrum für Löt- und Entlötsysteme

EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

16.02.2021

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: CR 88	**Solder Paste „CR 88“**	**F-SW 32** **DIN EN 29 454.1 1.1.3.C**
1.) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1.) Product identifier **Trade name/designation:**	Solder Paste: CR88	
1.2.) Relevant identified uses of the substance or mixture and uses advised against		
Relevant identified uses:		
Sector of uses [SU]:	**SU 3**	Industrial uses: Uses of substances as such or in preparations at industrial sites
	SU 16	Manufacture of computer, electronic and optical products, electrical equipment
	SU17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
Product Categories [PC]:	**PC38**	Welding and soldering products (with flux coatings or flux cores), flux products
	PC38	Welding and soldering products (with flux coatings or flux cores), flux products
Article categories [AC]:	**AC 1**	Vehicles
	AC 2	Machinery, mechanical appliances, electrical/electronic articles
	AC 9	Photographic and reprographic articles: cameras, video cameras
Uses advised against:		
Sector of uses [SU]:	**SU 21**	Consumer uses: Private households (= general public = consumers)
1.3.) Details of the supplier of the safety data sheet		
Supplier (manufacturer/importer/only representative/downstream user/ distributor):		
address:	**EDSYN GMBH EUROPA** Finkenweg 2 Tel.: 09342- 6413 D 97892 Kreuzwertheim Fax: 09342 -6417	
Emergency telephone number:	next hospital	

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2.) HAZARDS IDENTIFICATION

2.1.) Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	**H317**: May cause an allergic skin reaction.	

2.2.) Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

GHS07
Exclamation mark

Signal word: Warning

Hazard statements for health hazards	**H317**	May cause an allergic skin reaction.
Supplemental Hazard information (EU):	**EUH208**	Contains flux based on resin. May produce an allergic reaction.
Precautionary statements Prevention	**P272**	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
Precautionary statements Response	**P302+P352**	IF ON SKIN: Wash with plenty of water/…
Other hazards	No data available	

3.) COMPOSITION/INFORMATION ON INGREDIENTS

3.1.) Mixtures

Description: Tin-solder for soft-soldering

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS-No. 7440-31-5 EC No. 231-141-8 REACH-No. 01-2119486474-28-0004	**tin**	80 – 84 Wt %
CAS-No. 8050-26-8	**Flux based on resin** Skin Sens. 1 **Warning** H317	13 – 18 Wt %
CAS-No. 7440-22-4 EC No. 231-131-3 REACH-No. 01-2119555669-21-0025	**silver**	1 - 3 Wt %

Full text of H- and EUH-phrases: see section 16.

4.)	**FIRST AID MEASURES**	
4.1.)	**Description of first aid measures**	
	General information:	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.
	Following inhalation:	Provide fresh air. In case of respiratory tract irritation, consult a physician.
	In case of skin contact:	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
	After eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water.
	After ingestion:	Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.
	Self-protection of the first aider:	Use personal protection equipment.
4.2.)	**Most important symptoms and effects, both acute and delayed**	Allergic reactions.
4.3.)	**Indication of any immediate medical attention and special treatment needed**	Treat symptomatically.
5.)	**FIREFIGHTING MEASURES**	
5.1.)	**Extinguishing media**	
	Suitable extinguishing media:	Co-ordinate fire-fighting measures to the fire surroundings.
5.2.)	**Special hazard arising from the substance or mixtures**	The product itself does not burn.

Hazardous combustion products:	In case of fire: gases/vapours, toxic
5.3.) Advice for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.
5.4.) Additional information	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
6.) <u>ACCIDENTAL RELEASE MEASURES</u>	
6.1.) Personal precautions, protective equipment and emergency procedures	
6.1.1.) For non-emergency personnel	
Personal precautions:	Remove persons to safety.
Protective equipment:	Wear protective gloves/protective clothing/eye protection/face protection.
6.1.2.) For emergency responders	
Personal protection equipment:	Personal protection equipment: see section 8
6.2.) Environmental precautions	Do not allow to enter into surface water or drains.
6.3.) Methods and material for containment and cleaning up	
For containment:	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
For cleaning up:	Take up mechanically, placing in appropriate containers for disposal. Wipe up with absorbent material (eg: cloth, fleece).
6.4.) Reference to other sections	Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13
6.5.) Additional information	Use appropriate container to avoid environmental contamination.
7.) <u>HANDLING AND STORAGE</u>	
7.1.) Precautions for safe handling	
Protective measures	
Advices on safe handling:	Wear personal protection equipment (refer to section 8). All work processes must always be designed so that the following is as low as possible: Inhalation Eye contact No special measures are necessary.
Fire prevent measures:	No special measures are necessary. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Advices on general occupational hygiene	When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2.) Conditions for safe storage, including any incompatibilities	
Technical measures and storage conditions:	Keep container tightly closed in a cool, well-ventilated place.
Requirements for storage rooms and vessels:	Keep/Store only in original container.
7.3.) Specific end use(s)	
Recommendation:	Processing for soldering Observe technical data sheet.
Industrial sector specific solutions:	Tin-solder for soft-soldering

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

8.1.) Control parameters

8.1.1.) Occupational exposure limit values

Limit value type (country of origin)	**Substance name**	**1. long-term occupational exposure limit value 2. short-term occupational exposure limit value 3. Instantaneous value 4. Monitoring and observation processes 5. Remark**
IOELV (EU)	tin CAS-No. 7440-31-5	**1.** 2 mg/m³
WEL (GB)	tin CAS-No. 7440-31-5	**1.** 2 mg/m³ **2.** 4 mg/m³
IOELV (EU)	silver CAS-No. 7440-22-4	**1.** 0,1 mg/m³ **5.** metal
WEL (GB)	silver CAS-No. 7440-22-4	**1.** 0,1 mg/m³ **5.** metal

8.1.2.) Biological limit values	No data available
8.1.3.) DNEL-/PNEC-values	No data available.
8.2.) Exposure controls	
8.2.1.) Appropriate engineering controls	No special measures required.
8.2.2.) Personal protection equipment	
Eye/face protection:	Eye glasses with side protection
Skin protection:	Tested protective gloves must be worn DIN EN 374 Suitable material: Breakthrough time (maximum wearing time) min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.
Respiratory protection:	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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8.2.3.) Environmental exposure controls	See section 7. No additional measures necessary.
8.3.) Additional information	No data available

9.) PHYSICAL AND CHEMICAL PROPERTIES

9.1.) Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Colour:	grey
Odour:	earthy

Safety relevant basis data

parameter		**at °C**	**Method**	**Remark**
pH:	4 – 6	20 °C		Value for flux
Melting point/freezing point:	221 °C			
Freezing point:	not determined			
Initial boiling point and boiling range:	not applicable			
Decomposition temperature (°C):	not determined			
Flash point :	not applicable			
Evaporation rate:	not determined			
Ignition temperature in °C:	not determined			
Upper/lower flammability or explosive limits:	not determined			
Vapour pressure:	not determined			
Vapour density:	not determined			
Density:	4 – 8 g/cm³	20 °C		
Bulk density:	not determined			
Water solubility (g/L):	not applicable			
Partition coefficient: n-octanol/water:	not determined			
Dynamic viscosity:	400 – 1000 mPa*s	25 °C	Brookfield-Helipath	
Kinematic viscosity:	Not determined			

9.2.) Other information	No data available

10.) STABILITY AND REACTIVITY

10.1.) Reactivity	Risk of explosion if heated under confinement. The product itself does not burn.
10.2.) Chemical stability	The product is chemically stable under recommended conditions of storage, use and temperature.
10.3.) Possibility of hazardous reactions	No hazardous reaction when handled and stored according to provisions.
10.4.) Conditions to avoid	No data available
10.5.) Incompatible materials	No data available
10.6.) Hazardous decomposition products	In case of fire: Gases/vapours, toxic

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11.) TOXICOLOGICAL INFORMATION	
11.1.) Information on toxicological effects	
Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Contains epoxy constituents. May produce an allergic reaction.
12.) ECOLOGICAL INFORMATION	
12.1.) Toxicity	No data available
12.2.) Persistence and degradability	No data available
12.3.) Bioaccumulative potential	No data available
12.4.) Mobility in soil	No data available

12.5.) Results of PBT and vPvB assessment

CAS-No.	Substance name	Results of PBT and vPvB assessment
8050-26-8	Flux based on resin	-

12.6.) Other adverse effects	No data available
13.) DISPOSAL CONSIDERATIONS	
13.1.) Waste treatment methods	Consult supplier about waste disposal. Return to manufacturer.
13.1.1.) Product/Packaging disposal	Waste codes/waste designations according to EWC/AVV.
Waste code product:	**12 01 04** non-ferrous metal dust and particles
Waste code packaging:	**15 01 02** Plastic packaging
Waste treatment options	
Appropriate disposal / Product:	Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.
Appropriate disposal / Package:	Completely emptied packages can be recycled.
13.2.) Additional information	No data available
14.) TRANSPORT INFORMATION	No dangerous good in sense of these transport regulations.
14.1.) UN-No.	not relevant.
14.2.) UN proper shipping name	not relevant.
14.3.) Transport hazard class(es)	not relevant.
14.4.) Packing group	not relevant.

14.5.) Environmental hazards	not relevant.
14.6.) Special precautions for user	not relevant.
14.7.) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not relevant
15.) REGULATORY INFORMATION	
15.1.) Safety; health and environmental regulations/legislation specific for the substance or mixture	No data available
15.2.) Chemical Safety Assessment	No data available
15.3.) Additional information	No data available
16.) OTHER INFORMATION	
16.1.) Indication of changes	No data available
16.2.) Abbreviations and acronyms	No data available
16.3.) Key literature references and sources for data	No data available
16.4.) Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]	

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens.1)	**H317**: May cause an allergic skin reaction.	

16.5.) Relevant R-, H- and EUH-phrases (Number and full text)	
Hazard statements	**H317** May cause an allergic skin reaction.
16.6.) Training advice	No data available
16.7.) Additional information	The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing. The information on this safety data sheet is not necessarily valid for the new made-up material.
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