





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

Trade name: CR 77	SMD-Solder Paste „CR 77“ F-SW 32 DIN EN 29 454.1 1.2.3.C
<p>1.) <b><u>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</u></b></p> <p>1.1.) <b>Product identifier</b> Trade name/designation:</p> <p>1.2.) <b>Relevant identified uses of the substance or mixture and uses advised against</b></p> <p><b>Use of the substance/mixture:</b></p> <p><b>Relevant identified uses:</b></p> <p><b>Sector of uses [SU]</b></p> <p><b>Product categories [PC]:</b></p> <p><b>Article categories [AC]:</b></p> <p><b>Uses advised against</b> <b>Sector of uses [SU]:</b></p> <p>1.3.) <b>Details of the supplier of the safety data sheet</b></p> <p><b>Supplier (manufacturer/importer/only representative/downstream user/distributor):</b></p> <p>1.4.) <b>Emergency telephone number</b></p>	<p>Solder Paste CR77</p> <p>Processing for soldering. The product is intended for professional use.</p> <p><b>SU 3</b> Industrial uses: Uses of substances as such or in preparations at industrial sites.</p> <p><b>SU 16</b> Manufacture of computer, electronic and optical products, electrical equipment.</p> <p><b>SU 17</b> General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.</p> <p><b>PC 38</b> Welding and soldering products (with flux coatings or flux cores), flux products.</p> <p><b>PC 38</b> Welding and soldering products (with flux coatings or flux cores), flux products.</p> <p><b>AC 1</b> Vehicles</p> <p><b>AC 2</b> Machinery, mechanical appliances, electrical/electronic articles.</p> <p><b>AC 9</b> Photographic and reprographic articles: cameras, video cameras.</p> <p><b>SU 21</b> Consumer uses: Private households (= general public = consumers).</p> <p><b>EDSYN GMBH EUROPA</b> Finkenweg 2 D 97892 Kreuzwertheim</p> <p>Tel.: 09342 - 6413 Fax: 09342 - 6417</p> <p>closed hospital</p>

<b>2.) <u>HAZARDS IDENTIFICATION</u></b>										
<b>2.1.) Classification of the substance or mixture</b>										
<b>Classification according to Regulation (EC) No. 1272/2008 [CLP]</b>										
<table border="1"> <thead> <tr> <th>Hazard classes and hazard categories</th> <th>Hazard statements</th> <th>Classification procedure</th> </tr> </thead> <tbody> <tr> <td>Respiratory or skin sensitisation (Skin Sens.1)</td> <td>H317: May cause an allergic skin reaction.</td> <td></td> </tr> <tr> <td>Hazardous to the aquatic environment (Aquatic Chronic 2)</td> <td>H411: Toxic to aquatic life with long lasting effects.</td> <td></td> </tr> </tbody> </table>	Hazard classes and hazard categories	Hazard statements	Classification procedure	Respiratory or skin sensitisation (Skin Sens.1)	H317: May cause an allergic skin reaction.		Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.		
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<b>2.2.) Label elements</b>	<b>Labelling according to Regulation (EC) No. 1272/2008 [CLP]</b>									
<b>Hazard statements for health hazards:</b>	Hazard pictograms:									
<b>Hazard statements for environmental hazards:</b>	 <b>GHS07</b> Exclamation mark									
<b>Supplemental Hazard information (EU):</b>	 <b>GHS09</b> Environment									
<b>Precautionary statements Prevention:</b>	<b>Signal word: Warning</b>									
<b>Precautionary statements Response:</b>	<b>H317</b> May cause an allergic skin reaction.									
<b>2.3.) Other hazards:</b>	<b>H411</b> Toxic to aquatic life with long lasting effects.									
<b>3.) <u>COMPOSITION/INFORMATION ON INGREDIENTS</u></b>	<b>Supplemental Hazard information (EU):</b> -									
<b>3.1.) Mixtures</b>	<b>P272</b> Contaminated work clothing should not be allowed out of the workplace.									
<b>Description:</b>	<b>P280</b> Wear protective gloves/protective clothing/eye protection/face protection.									
	<b>P333+P313</b> If skin irritation or rash occurs: Get medical advice/attention.									
	No data available.									
	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 – 89 Wt-%
CAS No. 8050-26-8	Flux based on resin Skin Sens. 1 <b>Warning</b> H317	10 – 16 Wt-%
CAS No. 7440-22-4 EC No. 231-131-3 REACH No. 01-2119555669-21-0025	silver	0 – 4 Wt-%
CAS No. 7440-50-8 EC No. 231-159-6 REACH No. 01-2119480154-42-0002	copper Flam. Sol. 1, Aquatic Acute 1, Aquatic Chronic 1 <b>Danger</b> H228-H410	0 – 3 Wt-%

Full text of H- und 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 skin contact:**

In case of skin irritation, consult a physician. After contact with skin, wash immediately with plenty of water and soap.

**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.

**4.2.) Most important symptoms and effects, both acute and delayed**

No data available.

**4.3.) Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.



<p>5.) <b><u>FIREFIGHTING MEASURES</u></b></p> <p>5.1.) <b>Extinguishing media</b></p> <p><b>Suitable extinguishing media:</b></p> <p><b>Unsuitable extinguishing media:</b></p> <p>5.2.) <b>Special hazards arising from the substance or mixture</b></p> <p><b>Hazardous combustion products:</b></p> <p>5.3.) <b>Advice for firefighters</b></p> <p>5.4.) <b>Additional information</b></p>	<p>Co-ordinate fire-fighting measures to the fire surroundings. Foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>),</p> <p>Water</p> <p>The product itself does not burn.</p> <p>In case of fire: Gases/vapours, toxic. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).</p> <p>Wear a self-contained breathing apparatus and chemical protective clothing.</p> <p>Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>
<p>6.) <b><u>ACCIDENTAL RELEASE MEASURES</u></b></p> <p>6.1.) <b>Personal precautions, protective equipment and emergency procedures</b></p> <p>6.1.1.) <b>For non-emergency personnel</b></p> <p><b>Personal precautions:</b></p> <p><b>Protective equipment:</b></p> <p>6.1.2.) <b>For emergency responders</b></p> <p><b>Personal protective equipment:</b></p> <p>6.2.) <b>Environmental precautions</b></p> <p>6.3.) <b>Methods and material for containment and cleaning up</b></p> <p><b>For containment:</b></p> <p><b>For cleaning up:</b></p> <p>6.4.) <b>Reference to other sections</b></p> <p>6.5.) <b>Additional information</b></p>	<p>Remove persons to safety.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Personal protection equipment: see section 8.</p> <p>Do not allow to enter into surface water or drains.</p> <p>Wipe up with absorbent material (eg. cloth, fleece).</p> <p>Take up mechanically, placing in appropriate containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).</p> <p>Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.</p> <p>Use appropriate container to avoid environmental contamination.</p>



<p>7.) <b><u>HANDLING AND STORAGE</u></b></p> <p>7.1.) <b>Precautions for safe handling</b></p> <p><b><u>Protective measures</u></b> <b>Advices on safe handling:</b></p> <p><b>Fire prevent measures:</b></p> <p><b>Advices on general occupational hygiene:</b></p> <p>7.2.) <b>Conditions for safe storage, including any incompatibilities</b></p> <p><b>Technical measures and storage conditions:</b></p> <p><b>Requirements for storage rooms and vessels:</b></p> <p><b>Hints on storage assembly:</b></p> <p>7.3.) <b>Specific end use(s)</b></p> <p><b>Recommendation:</b></p> <p><b>Industrial sector specific solutions:</b></p>	<p>Wear personal protection equipment (refer to section 8). All work processes must always be designed so that the following is as low as possible: Skin contact, Eye contact. No special measures are necessary. Always close containers tightly after the removal of product. Do not put any product-impregnated cleaning rags into your trouser pockets.</p> <p>No special measures are necessary. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.</p> <p>When using do not eat, drink or smoke. Avoid contact with skin and eyes.</p> <p>Keep container tightly closed in a cool, well-ventilated place.</p> <p>Keep/Store only in original container.</p> <p>Do not store together with: Food and feedingstuffs.</p> <p>Processing for soldering. Observe technical data sheet.</p> <p>Tin-solder for soft-soldering.</p>															
<p>8.) <b><u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u></b></p> <p>8.1.) <b>Control parameters</b></p> <p>8.1.1.) <b>Occupational exposure limit values</b></p> <table border="1" data-bbox="259 1554 1445 1900"> <thead> <tr> <th>Limit value type (country of origin)</th> <th>Substance name</th> <th>1. Long-term occupational exposure limit value 2. Short-term occupational exposure limit value 3. Instantaneous value 4. Monitoring and observation processes 5. Remark</th> </tr> </thead> <tbody> <tr> <td>IOELV (EU)</td> <td>tin CAS No. 7440-31-5</td> <td>1. 2 mg/m<sup>3</sup></td> </tr> <tr> <td>WEL (GB)</td> <td>tin CAS No. 7440-31-5</td> <td>1. 2 mg/m<sup>3</sup> 2. 4 mg/m<sup>3</sup></td> </tr> <tr> <td>IOELV (EU)</td> <td>silver CAS No. 7440-22-4</td> <td>1. 0,1 mg/m<sup>3</sup> 5. metal</td> </tr> <tr> <td>WEL (GB)</td> <td>silver CAS No. 7440-22-4</td> <td>1. 0,1 mg/m<sup>3</sup> 5. metal</td> </tr> </tbody> </table>	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/m <sup>3</sup>	WEL (GB)	tin CAS No. 7440-31-5	1. 2 mg/m <sup>3</sup> 2. 4 mg/m <sup>3</sup>	IOELV (EU)	silver CAS No. 7440-22-4	1. 0,1 mg/m <sup>3</sup> 5. metal	WEL (GB)	silver CAS No. 7440-22-4	1. 0,1 mg/m <sup>3</sup> 5. metal	
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<p>8.1.2.) <b>Biological limit values</b></p> <p>8.1.3.) <b>DNEL-/PNEC-values</b></p> <p>8.2.) <b>Exposure controls</b></p> <p>8.2.1.) <b>Appropriate engineering controls</b></p> <p>8.2.2.) <b>Personal protection equipment</b></p> <p><b>Eye/face protection:</b></p> <p><b>Skin protection:</b></p> <p><b>Respiratory protection:</b></p> <p>8.2.3.) <b>Environmental exposure controls</b></p> <p>8.3.) <b>Additional information</b></p>	<p>No data available.</p> <p>No data available.</p> <p>No special measures required.</p> <p>Eye glasses with side protection.</p> <p>Tested protective gloves must be worn DIN EN 374.</p> <p><b>Suitable material:</b> 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.</p> <p>If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.</p> <p>See section 7. No additional measures necessary.</p> <p>No data available.</p>																																																												
<p>9.) <b><u>PHYSICAL AND CHEMICAL PROPERTIES</u></b></p> <p>9.1.) <b>Information on basic physical and chemical properties</b></p> <p><b>APPEARANCE</b> <b>Physical state:</b> <b>Colour:</b> <b>Odour:</b></p> <p><b>Safety relevant basis data:</b></p> <p><u>parameter</u></p> <p><b>pH:</b> <b>Melting point / freezing point</b> <b>Freezing point:</b> <b>Initial boiling point and boiling range:</b> <b>Decomposition temperature (°C):</b> <b>Flash point:</b> <b>Evaporation rate:</b> <b>Ignition temperature in °C:</b> <b>Upper/lower flammability or explosive limits:</b> <b>Vapour pressure:</b> <b>Vapour density:</b> <b>Density:</b> <b>Bulk density:</b> <b>Water solubility (g/L):</b></p>	<p>liquid grey earthy</p> <table border="1"> <thead> <tr> <th></th> <th>at °C</th> <th>Method</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>4 – 6</td> <td>20 °C</td> <td></td> <td>Value for flux</td> </tr> <tr> <td>217 – 230 °C</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not applicable.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not applicable.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not applicable.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Not applicable.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 – 8 g/cm<sup>3</sup></td> <td>20 °C</td> <td></td> <td></td> </tr> <tr> <td>not determined.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>not applicable.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		at °C	Method	Remark	4 – 6	20 °C		Value for flux	217 – 230 °C				not determined.				not applicable.				not determined.				not applicable.				not determined.				not applicable.				not determined.				Not applicable.				Not determined.				4 – 8 g/cm <sup>3</sup>	20 °C			not determined.				not applicable.			
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<p><b>Partition coefficient: n-octanol/water:</b>  <b>Dynamic viscosity:</b>  <b>Kinematic viscosity:</b></p> <p>9.2.) <b>Other information</b></p>	<p>not determined.          400 – 1.000 mPa*s                      25 °C    Brookfield-Helipath          not determined.</p> <p>No data available.</p>						
<p>10.) <b><u>STABILITY AND REACTIVITY</u></b></p> <p>10.1.) <b>Reactivity</b></p> <p>10.2.) <b>Chemical stability</b></p> <p>10.3.) <b>Possibility of hazardous reactions</b></p> <p>10.4.) <b>Conditions to avoid</b></p> <p>10.5.) <b>Incompatible materials</b></p> <p>10.6.) <b>Hazardous decomposition products</b></p>	<p>Risk of explosion if heated under confinement. The product itself does not burn.</p> <p>The product is chemically stable under recommended conditions of storage, use and temperature.</p> <p>No hazardous reaction when handled and stored according to provisions.</p> <p>No data available.</p> <p>No data available.</p> <p>In case of fire: Gases/vapours, toxic.</p>						
<p>11.) <b><u>TOXICOLOGICAL INFORMATION</u></b></p> <p>11.1.) <b>Information on toxicological effects</b></p> <p><b>Acute oral toxicity:</b></p> <p><b>Acute dermal toxicity:</b></p> <p><b>Acute inhalation toxicity:</b></p> <p><b>Respiratory or skin sensitisation:</b></p>	<p>No toxicity known.</p> <p>No toxicity known.</p> <p>No toxicity known.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled. No sensitising effects known.</p>						
<p>12.) <b><u>ECOLOGICAL INFORMATION</u></b></p> <p>12.1.) <b>Toxicity</b></p> <p><b>Aquatic toxicity:</b></p> <p>12.2.) <b>Persistence and degradability</b></p> <p>12.3.) <b>Bioaccumulative potential</b></p> <p>12.4.) <b>Mobility in soil</b></p>	<table border="1" data-bbox="748 1480 1479 1665"> <thead> <tr> <th>CAS No.</th> <th>Substance name</th> <th>Toxicological information</th> </tr> </thead> <tbody> <tr> <td>7440-50-8</td> <td>copper</td> <td>LC<sub>50</sub>: 21 mg/l 4 d                      LC<sub>50</sub>: 5,36 mg/l 2 d                      EC<sub>50</sub>: 0,34 mg/l 2 d                      EC<sub>50</sub>: 0,91 mg/l 3 d                      EC<sub>50</sub>: 7,2 mg/l 4 d</td> </tr> </tbody> </table> <p>Very toxic to aquatic life with long lasting effects.</p> <p>No data available.</p> <p>No data available.</p> <p>No data available.</p>	CAS No.	Substance name	Toxicological information	7440-50-8	copper	LC <sub>50</sub> : 21 mg/l 4 d LC <sub>50</sub> : 5,36 mg/l 2 d EC <sub>50</sub> : 0,34 mg/l 2 d EC <sub>50</sub> : 0,91 mg/l 3 d EC <sub>50</sub> : 7,2 mg/l 4 d
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20.11.2018

<p><b>12.5.) Results of PBT and vPvB assessment</b></p>	<table border="1"> <thead> <tr> <th>CAS No.</th> <th>Substance name</th> <th>Results of PBT- and vPvB assessment</th> </tr> </thead> <tbody> <tr> <td>7440-31-5</td> <td>tin</td> <td>-</td> </tr> <tr> <td>8050-26-8</td> <td>Flux based on resin</td> <td>-</td> </tr> <tr> <td>7440-22-4</td> <td>silver</td> <td>-</td> </tr> <tr> <td>7440-50-8</td> <td>copper</td> <td>-</td> </tr> </tbody> </table>	CAS No.	Substance name	Results of PBT- and vPvB assessment	7440-31-5	tin	-	8050-26-8	Flux based on resin	-	7440-22-4	silver	-	7440-50-8	copper	-
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<p><b>12.6.) Other adverse effects</b></p>	<p>No data available.</p>															
<p><b>13.) <u>DISPOSAL CONSIDERATIONS</u></b></p> <p><b>13.1.) Waste treatment methods</b></p> <p><b>13.1.1.) Product/Packaging disposal</b></p> <p><b>Waste code product:</b></p> <p><b>Waste code packaging:</b></p> <p><b><u>Waste treatment options</u></b></p> <p><b>Appropriate disposal/Product:</b></p> <p><b>Appropriate disposal/Package:</b></p> <p><b>13.2.) Additional information</b></p>	<p>Consult supplier about waste disposal. Return to manufacturer.</p> <p>Waste codes/waste designations according to EWC/AVV.</p> <p><b><u>12 01 04</u></b> Non-ferrous metal dust and particles.</p> <p><b><u>07 02 13</u></b> Waste plastic</p> <p>Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.</p> <p>Completely emptied packages can be recycled.</p> <p>No data available.</p>															
<p><b>14.) <u>TRANSPORT INFORMATION</u></b></p> <p><b>14.1.) UN-No.</b></p> <p><b>14.2.) UN proper shipping name</b></p> <p><b>14.3.) Transport hazard class(es)</b></p> <p><b>14.4.) Packing group</b></p> <p><b>14.5.) Environmental hazards</b></p> <p><b>14.6.) Special precautions for user</b></p> <p><b>14.7.) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b></p>	<p>not relevant.</p> <p>not relevant.</p> <p>not relevant.</p> <p>not relevant.</p> <p>not relevant.</p> <p>not relevant.</p> <p>not relevant.</p>															





<p>15.) <b><u>REGULATORY INFORMATION</u></b></p> <p>15.1.) <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b></p> <p>15.1.1.) <b>EU legislation</b></p> <p>15.1.2.) <b>National regulations</b></p> <p> <b>[GB] National regulations</b></p> <p><b>Other regulations, restrictions and prohibition regulations</b></p> <p>Water hazard class (WGK):</p> <p>15.2.) <b>Chemical Safety Assessment</b></p> <p>15.3.) <b>Additional information</b></p>	<p>No data available.</p> <p>non-hazardous to water (nwg)</p> <p>No data available.</p> <p>No data available.</p>									
<p>16.) <b><u>OTHER INFORMATION</u></b></p> <p>16.1.) <b>Indication of changes</b></p> <p>16.2.) <b>Abbreviations and acronyms</b></p> <p>16.3.) <b>Key literature references and sources for data</b></p> <p>16.4.) <b>Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]</b></p>	<p>No data available.</p> <p>No data available.</p> <p>No data available.</p>									
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<p>16.5.) <b>Relevant R-, H- and EUH-phrases (Number and full text):</b></p> <p><b>Hazard statements:</b></p>	<p><b>H228</b> Flammable solid.  <b>H317</b> May cause an allergic skin reaction.  <b>H400</b> Very toxic to aquatic life.  <b>H410</b> Very toxic to aquatic life with long lasting effects.</p>									



<b>16.6.) Training advice</b>	No data available.
<b>16.7.) Additional information</b>          <b>Revision date:</b>	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 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.  10.02.2015 / 17.06.2015 / 18.05.2016