






27.02.2018

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

Trade Name: CR 44	SMD Solder paste CR 44 DIN EN 29 453	Flux F-SW 32 NF EN 29 454.1.2.3
<p>1.) Identification of the substances/mixture and of the company/undertaking</p> <p>1.1.) Product identifier Trade name/designation: Additional information:</p> <p>1.2.) Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture: Relevant identified uses: Sector of uses [SU]:</p> <p>Product Categories [PC]:</p> <p>Article categories [AC]:</p> <p>Uses advised against: Sector of uses [SU]:</p> <p>1.3.) Details of the supplier of the safety data sheet Supplier (manufacturer / importer / only representative / downstream user / distributor): MANUFACTURER Address:</p> <p>1.4.) Emergency telephone number</p>	<p>Solder Paste CR44 The substance does not require registration according to REACH.</p> <p>Processing for soldering. The product is intended for professional use.</p> <p>SU 3 Industrial use: Uses of substances as such or in preparations at industrial sites SU 16 Manufacture of computer, electronic and optical products, electrical equipment SU 17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment</p> <p>PC 38 Welding and soldering products (with flux coatings or flux cores), flux products PC 38 Welding and soldering products (with flux coatings or flux cores), flux products</p> <p>AC 1 Vehicles AC 2 Machinery, mechanical appliances, electrical/electronic articles AC 9 Photographic and reprographic articles: cameras, video cameras</p> <p>SU21 Consumer uses: Private households (=general public =consumers)</p> <p>EDSYN GMBH EUROPA Finkenweg 2 Tel.: 09342 - 6413 D 97892 Kreuzwertheim Fax: 09342 - 6417</p> <p>closed hospital</p>	



<p>2.) <u>HAZARDS IDENTIFICATION</u></p> <p>2.1.) Classification of the substance or mixture</p> <p>Classification according to Regulation (EC) No. 1272/2008 [CLP]:</p> <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>Acute toxicity (oral) (Acute Tox. 4)</td> <td>H302: Harmful if swallowed.</td> <td></td> </tr> <tr> <td>Respiratory or skin sensitisation (Skin Sens. 1)</td> <td>H317: May cause an allergic skin reaction.</td> <td></td> </tr> <tr> <td>Acute toxicity (inhalative) (Acute Tox. 4)</td> <td>H332: Harmful if inhaled.</td> <td></td> </tr> <tr> <td>Reproductive toxicity (Pepr. 1A)</td> <td>H360: May damage fertility or the unborn child.</td> <td></td> </tr> <tr> <td>STOT-repeated exposure (STOT RE 2)</td> <td>H373: May cause damage to organs through prolonged or repeated exposure.</td> <td></td> </tr> <tr> <td>Hazardous to aquatic environment (Aquatic Acute 1)</td> <td>H400: Very toxic to aquatic life.</td> <td></td> </tr> </tbody> </table>	Hazard classes and hazard categories	Hazard statements	Classification procedure	Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.		Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.		Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.		Reproductive toxicity (Pepr. 1A)	H360: May damage fertility or the unborn child.		STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure.		Hazardous to aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.		
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<p>2.2.) Label elements</p> <p>Labelling according to Regulation (EC) 1272/2008 [CLP]</p> <p>Hazard statements for health hazards:</p> <p>Hazard statements for environmental hazards:</p> <p>Precautionary statements Prevention</p> <p>Precautionary statements Response</p>	<p>Hazard pictograms:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>GHS07 Exclamation mark</p> </div> <div style="text-align: center;">  <p>GHS08 Health hazard</p> </div> <div style="text-align: center;">  <p>GHS09 Environment</p> </div> </div> <p>Signal word: Danger</p> <p>P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P281: Use personal protective equipment as required.</p> <p>P301+P312: IF SWALLOWED: Call a POISON CENTER / doctor/...if you feel unwell. P333+P313: If skin irritation or rash occurs: Get medical advice / attention.</p>																					
<p>2.3.) Other hazards</p>	<p>No data available</p>																					



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<p>3.) <u>COMPOSITION / INFORMATION ON INGREDIENTS</u></p> <p>3.2.) Mixtures</p> <p>Description:</p>	<p>Tin-solder for soft-soldering</p>															
<p>Hazardous ingredients / Hazardous impurities / Stabilisers</p>																
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<p>Full text of H- and EUH-phrases: see section 16.</p>																
<p>4.) <u>FIRST AID MEASURES</u></p> <p>4.1.) Description of first aid measures</p> <p>General information:</p> <p>Following inhalation:</p> <p>In case of skin contact:</p> <p>After eye contact:</p> <p>After ingestion:</p> <p>4.2.) Most important symptoms and effects, both acute and delayed</p>	<p>In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of danger area. Do not leave affected person unattended. First aider: Pay attention to self-protection!</p> <p>In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. In case of irregular breathing or respiratory arrest provide artificial respiration.</p> <p>After contact with skin, wash immediately with soap and plenty of water. In case of skin irritation, consult a physician.</p> <p>In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.</p> <p>In accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth immediately and drink plenty of water.</p> <p>No known symptoms to date.</p>															



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<p>4.3.) Indication of any immediate medical attention and special treatment needed</p>	<p>Treat symptomatically.</p>
<p>5.1.2.) <u>FIREFIGHTING MEASURES</u></p> <p>5.1.) Extinguishing media</p> <p>Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>5.2.) Special hazards arising from the substance or mixture</p> <p>Hazardous combustion products:</p> <p>5.3.) Advice for firefighters</p> <p>5.4.) Additional information</p>	<p>Carbon dioxide (CO²) Foam, Extinguishing powder</p> <p>Water</p> <p>The product itself does not burn.</p> <p>In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO²).</p> <p>Wear a self-contained breathing apparatus and chemical protective clothing.</p> <p>No data available</p>
<p>6.) <u>ACCIDENTAL RELEASE MEASURES</u></p> <p>6.1.) Personal precautions, protective equipment and emergency procedures</p> <p>6.1.1.) For non-emergency personnel</p> <p>Personal precautions:</p> <p>Protective equipment:</p> <p>Emergency procedures:</p> <p>6.1.2.) For emergency responders</p> <p>Personal protection equipment:</p> <p>6.2.) Environmental precautions</p> <p>6.3.) Methods and material for containment and cleaning up</p> <p>For containment:</p> <p>For cleaning up:</p> <p>6.4.) Reference to other sections:</p> <p>6.5.) Additional information:</p>	<p>Personal precautions Wear personal protection equipment.</p> <p>Wear protective gloves/protective clothing and eye/face protection.</p> <p>Remove all sources of ignition. Provide adequate ventilation.</p> <p>Personal protection equipment: see section 8</p> <p>Environmental precautions. No special environmental measures are necessary. Do not allow to enter into surface water or drains.</p> <p>Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).</p> <p>Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal. Spilled product must never be returned to the original container for recycling.</p> <p>Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8</p> <p>No data available.</p>



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<p>7.) <u>HANDLING AND STORAGE</u></p> <p>7.1.) Precautions for safe handling</p> <p>Protective measures</p> <p>Advices on safe handling:</p> <p>Fire prevent measures:</p> <p>Advices on general occupational hygiene</p> <p>7.2.) Conditions for safe storage, including any incompatibilities</p> <p>Technical measures and storage conditions:</p> <p>Requirements for storage rooms and vessels:</p> <p>Hints on storage assembly:</p> <p>Further information on storage conditions:</p> <p>7.3.) Specific end use(s)</p> <p>Recommendation:</p>	<p>Wear personal protection equipment (refer to section 8). No special technical protective measures are necessary. Only use the material in places where open light, fire and other flammable sources can be kept away.</p> <p>No special fire protection measures are necessary. When using do not eat, drink, smoke, sniff. Keep away from sources of ignition. – No smoking.</p> <p>When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.</p> <p>Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.</p> <p>Keep/Store only in original container.</p> <p>Do not store together with: Food and feedingstuffs.</p> <p>Keep only in the original container in a cool, well-ventilated place.</p> <p>Observe technical data sheet.</p>																		
<p>8.) <u>EXPOSURE CONTROLS / PERSONAL PROTECTION</u></p> <p>8.1.) Control parameters</p> <p>8.1.1.) Occupational exposure limit values</p>	<table border="1"> <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>BOELV (EU)</td> <td>lead CAS No.: 7439-92-1</td> <td>1. 0.15mg/m³ 5. (inhalable fraction)</td> </tr> <tr> <td>IOELV (EU)</td> <td>tin CAS No.: 7440-31-5</td> <td>1. 2 mg/m³</td> </tr> <tr> <td>WEL (GB)</td> <td>tin CAS No.: 7440-31-5</td> <td>1. 2mg/m³ 2. 4mg/m³</td> </tr> <tr> <td>IOELV (EU)</td> <td>silver CAS No.: 7440-22-4</td> <td>1. 0.1 mg/m³ 5. metal</td> </tr> <tr> <td>WEL (GB)</td> <td>silver CAS No.: 7440-22-4</td> <td>1. 0.1 mg/m³ 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	BOELV (EU)	lead CAS No.: 7439-92-1	1. 0.15mg/m ³ 5. (inhalable fraction)	IOELV (EU)	tin CAS No.: 7440-31-5	1. 2 mg/m ³	WEL (GB)	tin CAS No.: 7440-31-5	1. 2mg/m ³ 2. 4mg/m ³	IOELV (EU)	silver CAS No.: 7440-22-4	1. 0.1 mg/m ³ 5. metal	WEL (GB)	silver CAS No.: 7440-22-4	1. 0.1 mg/m ³ 5. metal
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8.1.2.) Biological limit values

Limit value type (country of origin)	Substance name	Limit value	1. parameter 2. Test material 3. Sample time 4. Remark
BLV (EU)	lead CAS-No.: 7439-92-1	30 µg/100ml	1. Lead 3. no restriction

8.1.3.) DNEL- / PNEC-values

No data available.

8.2.) Exposure controls

8.2.1.) Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2.) Personal protection equipment:

Eye / face protection:

Eye glasses.

Skin protection:

Wash hands before breaks and after work.

Hand protection:

Suitable gloves type: Disposable gloves
Suitable material: NR (natural rubber, natural latex) NBR (Nitrile rubber)
DIN- / EN-Norms: DIN EN 374.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

Other protection measures:

Protective clothing: Body protection: not required.
General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes.

8.2.3.) Environmental exposure controls

No data available.

8.3.) Additional information

No data available.

9.) PHYSICAL AND CHEMICAL PROPERTIES

9.1.) Information on basic physical and chemical properties

Appearance

Physical state:

Odour:

Colour:

Paste
earthy
grey

Safety relevant basis data

parameter

pH:

4 – 6

at °C

20 °C

Method

Value for flux

Remark

Melting point/freezing point:

179 – 183 °C

Freezing point:

not determined.



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<p>Initial boiling point and boiling range:</p> <p>Decomposition temperature (°C):</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Ignition temperature in °C:</p> <p>Upper/lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Density:</p> <p>Bulk density:</p> <p>Water solubility (g/l):</p> <p>Partition coefficient: n-octanol/water:</p> <p>Dynamic viscosity:</p> <p>Kinematic viscosity:</p> <p>9.2.) Other information</p>	<p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>4 – 8 g/cm³ 20 °C</p> <p>not determined.</p> <p>not determined.</p> <p>not determined.</p> <p>400 – 1000 mPa*s 25 °C nach Brookfield-Helipath</p> <p>not determined.</p> <p>No data available</p>
<p>10.) <u>STABILITY AND REACTIVITY</u></p> <p>10.1.) Reactivity</p> <p>10.2.) Chemical stability</p> <p>10.3.) Possibility of hazardous reactions</p> <p>10.4.) Conditions to avoid:</p> <p>10.5.) Incompatible materials</p> <p>10.6.) Hazardous decomposition products:</p>	<p>This information is not available.</p> <p>The mixture 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>This information is not available.</p> <p>This information is not available.</p> <p>Decomposition takes place from temperatures above: 500 °C Thermal decomposition can lead to the escape of irritating gases and vapours.</p>
<p>11.) <u>TOXICOLOGICAL INFORMATION</u></p> <p>11.1.) Information on toxicological effects</p> <p>Acute oral toxicity:</p> <p>Acute dermal toxicity:</p> <p>Acute inhalation toxicity:</p> <p>Skin corrosion / irritation:</p> <p>Respiratory or skin sensitisation:</p> <p>STOT-repeated exposure:</p>	<p>Toxic if swallowed.</p> <p>No data available.</p> <p>No data available.</p> <p>Not known.</p> <p>No sensitising effects known. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>May cause damage to organs through prolonged or repeated exposure.</p>



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12. ECOLOGICAL INFORMATION

12.1.) Toxicity

CAS No.	Substance name	Toxicological information
7439-92-1	lead	LC50: 2.8mg/l 4 d LC50: 4.46mg/l 2 d

Aquatic toxicity: No toxicity known. Very toxic to aquatic life.

Terrestrial toxicity: No toxicity known.

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
7439-92-1	lead	-
7440-31-5	tin	-
8050-26-8	Flux based on resin	-
7440-22-4	silver	-

12.6.) Other adverse effects No data available.

13.) DISPOSAL CONSIDERATIONS

13.1.) Waste treatment methods For recycling, contact manufacturer.

13.1.1.) Product / Packaging disposal Waste codes / waste designations according to EWC / AVV

Waste code product: **06 04 05***
wastes containing other heavy metals
*: Evidence for disposal must be provided.

Waste code packaging: **15 01 10**
packaging containing residues of or contaminated by dangerous substances

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: Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge. Completely emptied packages can be recycled.

13.2.) Additional information No data available



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<p>14.) <u>TRANSPORT INFORMATION</u></p> <p>14.1.) UN-No.</p> <p>14.2.) UN proper shipping name</p> <p>14.3.) Transport hazard class(es)</p> <p>14.4.) Packing group</p> <p>14.5.) Environmental hazards</p> <p>14.6.) Special precautions for user</p> <p>14.7.) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</p>	<p>No dangerous good in sense of these transport regulations.</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.) <u>REGULATORY INFORMATION</u></p> <p>15.1.) Safety, health and environmental regulations / legislation specific for the substance or mixture</p> <p>15.1.1.) EU legislation</p> <p>Authorisations:</p> <p>Restrictions on use:</p> <p>15.1.2.) National regulations</p> <p> [GB] National regulations</p> <p>Other regulations, restrictions and prohibition regulations</p> <p>Water hazard class (WGK):</p> <p>15.2.) Chemical Safety Assessment</p> <p>15.3.) Additional information</p>	<p>For this substance a chemical safety assessment is not required.</p> <p>Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.</p> <p>When adding solvents to adjust the processing viscosity, strictly follow the instructions of the technical datasheet.</p> <p>Slightly hazardous to water (WGK 1).</p> <p>No data available</p> <p>No data available</p>
<p>16.) <u>OTHER INFORMATION</u></p> <p>16.1.) Indication of changes</p> <p>16.2.) Abbreviations and acronyms</p> <p>16.3.) Key literature references and sources for date</p>	<p>No data available</p> <p>No data available</p> <p>No data available</p>



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16.4.) Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed	-
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	-
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled	-
Reproductive toxicity (Repr. 1A)	H360: May damage fertility or the unborn child.	-
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure.	-
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	-

16.5.) Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements

H302 Harmful if swallowed
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled
H360Df May damage the unborn child. Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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.

Revision date::

07.04.2014 / 17.06.2015 / 21.10.2015 / 02.12.2015 / 18.05.2016