





28.08.2013

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

INTERNATIONAL STANDARD NORM ISO 11014-1

<p>Trade name: Fluxi FL 88</p>	<p>Flux Dispenser</p> <p>F-SW 34 DIN ISO 29454 / 2.2.3.A Solid content: 3,0%</p>												
<p>1.) <u>MANUFACTURER</u> Address:</p>	<p>EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim</p> <p>Tel. 09342 - 6413 Fax: 09342 - 6417</p>												
<p>2.) <u>HAZARD IDENTIFICATION</u></p> <p>2.1) Classification of the substance or mixture</p> <p>Special dangers to human and environment</p> <p>R phrases:</p> <p>S phrases:</p> <p>Special labelling of certain mixtures</p>	<p>Label elements / Danger symbols</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  F - Highly flammable </div> <div style="text-align: center;">  Xi - Irritant </div> </div> <p>11 Highly flammable. 36 Irritating to eyes. 67 Vapours may cause drowsiness and dizziness.</p> <p>03 Keep in a cool place 07 Keep container tightly closed 15 Keep away from heat 16 Keep away from sources of ignition - No smoking 23 Do not breathe Avoid breathing dust/fume/gas/mist/vapours/spray.. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice 49 Keep only in the original container 24/25 Avoid contact with skin and eyes</p> <p>Restricted to professional users. For use in industrial installations or professional treatment only.</p>												
<p>3.) <u>COMPOSTITION / INFORMATION ON INGREDIENTS</u></p> <p>3.1) Chemical characterization</p> <p>3.2) Hazardous components</p> <p>Chemical name:</p>	<p>Contains: Alcohol</p> <p><u>Propan-2-ol; isopropyl alkohol; Isopropanol</u></p> <table border="0"> <tr> <td>EC-Nr.</td> <td>200-661-7</td> <td>Classification: F; R11-36-67; Xi</td> </tr> <tr> <td>CAS-Nr.</td> <td>67-63-0</td> <td>GHS-classification: Flam.Liq.2</td> </tr> <tr> <td>Index-Nr.</td> <td>603-117-00-0</td> <td>Eye Irrit.2, STOT SE 3, H225</td> </tr> <tr> <td>Anteil:</td> <td>80-100%</td> <td>H319, H336</td> </tr> </table>	EC-Nr.	200-661-7	Classification: F; R11-36-67; Xi	CAS-Nr.	67-63-0	GHS-classification: Flam.Liq.2	Index-Nr.	603-117-00-0	Eye Irrit.2, STOT SE 3, H225	Anteil:	80-100%	H319, H336
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<p>Chemical name:</p> <p>Chemical name:</p> <p>Chemical name:</p> <p>Further Information</p>	<p><u>Adipic acid</u> EC-Nr. 204-673-3 CAS-Nr. 124-04-9 Index-Nr. 607-144-00-9 Anteil: 1-4% Classification: Xi, R36 GHS-classification: Eye Irrit. 2, H319</p> <p><u>Itaconic acid</u> EG-Nr. 202-599-6 CAS-Nr. 97-65-4 Index-Nr. Anteil: 1-4% Classification: Xi R41 GHS-classification: Eye Dam.1 H318</p> <p><u>Rosin, colophony</u> EG-Nr. 232-475-7 CAS-Nr. 8050-09-7 Index-Nr. 650-015-00-7 Anteil: 0-2% Classification: R43 GHS-classification: Skin Sens. 1, H317</p> <p>Full text of R and H phrases: see Section 16. Contains: resin << No risks worthy of mention.</p>
<p>4.) <u>FIRST AID MEASURES</u></p> <p>4.1) Description of first aid measures</p> <p>After inhalation:</p> <p>After contact with skin:</p> <p>After contact with eyes:</p> <p>After ingestion:</p> <p>4.2) Information to physician</p>	<p>Provide fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).</p> <p>Wash with generous amount of water. Change contaminated clothing.</p> <p>If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.</p> <p>Rinse mouth immediately and drink large quantities of water.</p> <p>Rinse mouth thoroughly with water. Do not induce vomiting. In case of persisting problems contact physician.</p>
<p>5.) <u>FIREFIGHTING MEASURES</u></p> <p>5.1) Extinguishing media Suitable extinguishing media:</p> <p>5.2) Special hazards arising from the substance or mixture</p> <p>5.3) Advice for firefighters</p> <p>Additional information:</p>	<p>Carbon dioxide (CO2). Foam. Extinguishing powder.</p> <p>Combustible. Vapours may form explosive mixtures with air.</p> <p>In case of fire: Wear self-contained breathing apparatus. Safety clothes and compressed air from tanks. Fire class B (DIN EN 2).</p> <p>Use water spray/stream to protect personnel and to cool endangered containers. Use a water spray jet to knock down vapours/gases/mists. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>

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<p>6.) <u>ACCIDENTAL RELEASE MEASURES</u></p> <p>6.1) Personal precautions, protective equipment and emergency procedures</p> <p>6.2) Environment precautions</p> <p>6.3) Methods and material for containment and cleaning up</p>	<p>Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment.</p> <p>Do not allow uncontrolled leakage of product into the environment. Explosion hazard.</p> <p>Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal.</p>																																																						
<p>7.) <u>HANDLING AND STORAGE</u></p> <p>7.1) Precautions for safe handling</p> <p>Advice on safe handling:</p> <p>Advice on protection against fire and explosion:</p> <p>7.2) Conditions for safe storage, including any incompatibilities</p> <p>Requirements for storage rooms and vessels:</p> <p>Advice on storage compatibility:</p>	<p>In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.</p> <p>Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.</p> <p>Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.</p> <p>Do not store together with: Material, rich in oxygen, oxidizing.</p>																																																						
<p>8.) <u>EXPOSURE CONTROLS / PERSONAL PROTECTION</u></p> <p>8.1) Control parameters</p>	<p>Exposure limits (EH40)</p> <p>ETHANOL</p> <table border="1" data-bbox="747 1491 1477 1606"> <thead> <tr> <th>CAS-Nr.</th> <th>ppm</th> <th>mg/m³</th> <th>Fibres/ml</th> <th>Category</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>64-17-5</td> <td>1000</td> <td>1920</td> <td></td> <td>TWA (8h)</td> <td>WEL</td> </tr> <tr> <td></td> <td>-</td> <td>-</td> <td></td> <td>STEL (15min)</td> <td>WEL</td> </tr> </tbody> </table> <p>PROPAN-2-OL</p> <table border="1" data-bbox="747 1648 1477 1764"> <thead> <tr> <th>CAS-Nr.</th> <th>ppm</th> <th>mg/m³</th> <th>Fibres/ml</th> <th>Category</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>67-63-0</td> <td>400</td> <td>999</td> <td></td> <td>TWA (8h)</td> <td>WEL</td> </tr> <tr> <td></td> <td>500</td> <td>1250</td> <td></td> <td>STEL (15min)</td> <td>WEL</td> </tr> </tbody> </table> <p>ROSIN-BASED SOLDER FLUX FUME</p> <table border="1" data-bbox="747 1795 1477 1911"> <thead> <tr> <th>CAS-Nr.</th> <th>ppm</th> <th>mg/m³</th> <th>Fibres/ml</th> <th>Category</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>8050-09-7</td> <td>-</td> <td>0.05</td> <td></td> <td>TWA (8h)</td> <td>WEL</td> </tr> <tr> <td></td> <td>-</td> <td>0.15</td> <td></td> <td>STEL (15min)</td> <td>WEL</td> </tr> </tbody> </table>	CAS-Nr.	ppm	mg/m ³	Fibres/ml	Category	Origin	64-17-5	1000	1920		TWA (8h)	WEL		-	-		STEL (15min)	WEL	CAS-Nr.	ppm	mg/m ³	Fibres/ml	Category	Origin	67-63-0	400	999		TWA (8h)	WEL		500	1250		STEL (15min)	WEL	CAS-Nr.	ppm	mg/m ³	Fibres/ml	Category	Origin	8050-09-7	-	0.05		TWA (8h)	WEL		-	0.15		STEL (15min)	WEL
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<p>8.2) Exposure controls</p> <p>Occupational exposure controls:</p> <p>8.3) Personal protection</p> <p>Protective and hygiene measures:</p> <p>Respiratory protection:</p> <p>Hand protection:</p> <p>Eye protection:</p> <p>Skin protection</p> <p>Environmental exposure controls</p>	<p>In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.</p> <p>Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.</p> <p>Wear respiratory protection. Use appropriate respiratory protection. Only use breathing apparatus with CE-label including the four-digit identification number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used! Filter respirator (full mask or mouth-piece) with filter: A</p> <p>Additional protection measures for the hands: Hand protection: DIN EN 374 -CR (polychloroprenes, Chloroprene rubber). Thickness of glove material: 0,65 mm penetration time (maximum wearing period): > 120 min. -NBR (Nitrile rubber): Thickness of glove material: 0,4 mm penetration time (maximum wearing period): > 480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration. Have periods of recovery for the regeneration of the skin. In case of reutilization, clean gloves before taking off and store in well-aired place. Gloves only to be worn once. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Before using check leak tightness / impermeability.</p> <p>Tightly sealed safety glasses.</p> <p>For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).</p> <p>No special measures are necessary.</p> <p>AGW: place of work marginal value, MAK: Maximum place of work concentration</p>
<p>9.) <u>PHYSICAL AND CHEMICAL PROPERTIES</u></p> <p>9.1) Information on basic physical and chemical properties</p> <p>Physical state:</p> <p>Colour:</p> <p>Odour:</p> <p>Test method</p> <p>pH-Value:</p>	<p>liquid light yellow Alcohol</p> <p>not applicable etc.:</p>

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<p><u>Changes in the physical state</u></p> <p>Density: Water solubility: Solvent content: Viscosity: Flash point: Ignition at (°C): Boiling point: Vapour pressure: (at 20°C) Vapour pressure: (at 50°C) Lower explosion limits: Upper explosion limits: Explosiveness:</p>	<p>ca. 0,8 g/cm³ slightly soluble ca. 97 % n.a. 12°C 425 ca. 80 °C</p> <p>48 hPa</p> <p>236 hPa</p> <p>2 vol. % 12 vol. % Not explosive, but dangerous fume / air-mixtures may result</p> <p>n.a.: not applicable, n.d.: not determined, VOC: volatile components</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>No risks worthy of mention.</p> <p>Stability and reactivity: Yes</p> <p>Violent reaction with: Oxidizing agents, strong.</p> <p>Keep away from heat. Ignition hazard.</p> <p>Alkali metals.</p> <p>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><u>Irritation and corrosivity</u></p> <p>On the eyes:</p> <p>On the skin:</p>	<p>Acute toxicity</p> <p><u>adipic acid</u></p> <table border="1" data-bbox="748 1453 1463 1587"> <thead> <tr> <th>CAS-Nr.</th> <th>Exposure routes</th> <th>Method</th> <th>Dose</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>124-04-9</td> <td>oral</td> <td>LD50 mg/kg</td> <td>ca.5700</td> <td>Rat</td> </tr> <tr> <td></td> <td>inhalative (4 h) aerosol</td> <td>LC50</td> <td>>7,7mg/l</td> <td>Rat</td> </tr> </tbody> </table> <p><u>Itaconic acid</u></p> <table border="1" data-bbox="748 1663 1463 1747"> <thead> <tr> <th>CAS-Nr.</th> <th>Exposure routes</th> <th>Method</th> <th>Dose</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>97-65-4</td> <td>oral</td> <td>LD50 mg/kg</td> <td>>2000</td> <td>Rat</td> </tr> </tbody> </table> <p>Irritating to eyes. Vapours may cause drowsiness and dizziness.</p> <p>Irritant</p>	CAS-Nr.	Exposure routes	Method	Dose	Species	124-04-9	oral	LD50 mg/kg	ca.5700	Rat		inhalative (4 h) aerosol	LC50	>7,7mg/l	Rat	CAS-Nr.	Exposure routes	Method	Dose	Species	97-65-4	oral	LD50 mg/kg	>2000	Rat
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<p>On the respiratory tract:</p> <p>Sensitising effects</p> <p>Additional information on tests</p>	<p>Irritant</p> <p>May cause sensitization by skin contact.</p> <p>The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).</p>																														
<p>12.) <u>ECOLOGICAL INFORMATION</u></p> <p>12.1) Toxicity:</p> <p>12.2) Bioaccumulative potential:</p> <p>12.3) Ecotoxicity:</p> <p>12.4) Mobility:</p> <p>12.5) Persistence and degradability:</p> <p>12.6) Bio accumulative potential:</p> <p>12.7) Other adverse effects:</p> <p>Further information:</p>	<p>adipic acid CAS-Nr. 124-049</p> <table border="1" data-bbox="748 730 1490 995"> <thead> <tr> <th>Aquatic toxicity</th> <th>Method</th> <th>Dose</th> <th>h</th> <th>Species</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Acute fish toxicity</td> <td>LC50</td> <td>230 mg/l</td> <td>96</td> <td>Leuciscus idus</td> <td></td> </tr> <tr> <td>Acute algae toxicity</td> <td>ErC50</td> <td>31 mg/l</td> <td>72</td> <td>Desmodesmus subspicatus</td> <td>IUCLID</td> </tr> <tr> <td>acute crustacea toxicity</td> <td>EC50</td> <td>86 mg/l</td> <td>48</td> <td>Daphnia magna</td> <td></td> </tr> </tbody> </table> <p>Partition coefficient n-octanol/water</p> <table border="1" data-bbox="748 1073 1490 1129"> <thead> <tr> <th>Chemical name</th> <th>CAS-Nr.</th> <th>Log Pow</th> </tr> </thead> <tbody> <tr> <td>adipic acid</td> <td>124-04-9</td> <td>0,081</td> </tr> </tbody> </table> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not applicable</p> <p>not known</p> <p>The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).</p>	Aquatic toxicity	Method	Dose	h	Species	Source	Acute fish toxicity	LC50	230 mg/l	96	Leuciscus idus		Acute algae toxicity	ErC50	31 mg/l	72	Desmodesmus subspicatus	IUCLID	acute crustacea toxicity	EC50	86 mg/l	48	Daphnia magna		Chemical name	CAS-Nr.	Log Pow	adipic acid	124-04-9	0,081
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<p>13.) <u>DISPOSAL CONSIDERATIONS</u></p> <p>13.1) Waste treatment methods</p> <p>Advice on disposal:</p> <p>Waste disposal number of waste from residues/unused and used products:</p>	<p>Waste disposal according to official state regulations.</p> <p>140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures Classified as hazardous waste.</p>																														

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<p>Waste disposal number of contaminated packaging:</p> <p>Contaminated packaging:</p>	<p>150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging</p> <p>Water (with cleaning agent) Completely emptied packings can be recycled.</p>
<p>14.) <u>TRANSPORT INFORMATION</u></p> <p>14.1) Land transport ADR/RID/GGVSE:</p> <p>UN number:</p> <p>UN proper shipping name:</p> <p>Transport hazard class(es): Hazard label: Packing group:</p> <p>Classification code: Special Provision: Limited quantity Transport category Hazard No: Tunnel restriction code:</p> <p>Other applicable information (land transport)</p> <p>14.2) Inland waterways transport (ADN) /GGVSee:</p> <p>UN number:</p> <p>UN proper shipping name:</p> <p>Transport hazard class(es): Hazard label: Packing group:</p> <p>Classification code: Special Provision: Limited quantity:</p>	<p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, ethanol, ethyl alcohol)</p> <p>3 3 II</p>  <p>F1 274 601 640C 1 L 2 33 D/E</p> <p>E2</p> <p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, ethanol, ethyl alcohol)</p> <p>3 3 II</p>  <p>F1 274 601 640C 1 L</p>

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<p>Other applicable information (inland waterways transport)</p> <p>Marine pollutant: Ems:</p> <p>14.3) Marine transport (IMDG)</p> <p>UN number:</p> <p>UN proper shipping name:</p> <p>Transport hazard class(es): Hazard label: Packing group:</p> <p>Special Provision: Limited quantity: EmS:</p> <p>Other applicable information (marine transport)</p>	<p>E2</p> <p>no F-E / S-E</p> <p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, ethanol, ethyl alcohol)</p> <p>3 3 II</p>  <p>274 1 L F-E, S-E</p> <p>E2</p>
<p>14.4) Air transport (ICAO)IATA/DGR:</p> <p>UN/ID number:</p> <p>UN proper shipping name:</p> <p>Transport hazard class(es): Hazard label: Packing group:</p> <p>Special Provision: Limited quantity Passenger: IATA-packing instructions-Passenger: IATA-max. quantity-Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:</p> <p>Other applicable information (air transport)</p>	<p>UN1993</p> <p>FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, ethanol, ethyl alcohol)</p> <p>3 3 II</p>  <p>A3 1 L 353 5 L 364 60 L</p> <p>E2 Passenger-LQ: Y341</p>
<p>14.5) Environmental hazards:</p> <p>Dangerous for the environment:</p>	<p>no</p>

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<p>15.) REGULATORY INFORMATION</p> <p>15.1) Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>EU regulatory information: 1999/13/EC (VOC)</p> <p>Additional information: National regulatory information</p> <p>Employment restrictions:</p> <p>Water contaminating class (D):</p> <p>Disturbance Decree</p> <p>Technical Decree (TA-AIR):</p> <p>Water hazard class acc. to VwVwS:</p>	<p>97 %</p> <p>The receiver of our product is singularly responsible for adhering to existing laws and regulations.</p> <p>Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.</p> <p>1 - slightly water contaminating</p> <p>not subject to Interference V (appendix 1)</p> <p>n.a (LQ)</p> <p>1</p>
<p>16.) OTHER INFORMATION</p> <p>Full text of R phrases referred to under Sections 2 and 3</p> <p>Full text of H statements referred to under Sections 2 and 3</p> <p>Recommended restrictions of use:</p> <p>Essential revisions – see chapter:</p> <p>Abbreviations:</p>	<p>11 Highly flammable 36 Irritating to eyes 41 Risk of serious damage to eyes 43 May cause sensitisation by skin contact 67 Vapours may cause drowsiness and dizziness</p> <p>H225 Highly flammable liquid and vapour H317 May cause an allergic skin reaction H318 Causes serious eye damage H319 Causes serious eye irritation H336 May cause drowsiness or dizziness</p> <p>For industrial purposes only</p> <p>complete</p> <p>ACGIH: American Conference of Governmental Industrial Hygienists ADR: Accord Européen relatif au Transport international des Marchandises Dangereuses par Route CAS: Chemical Abstract Services EmS: Emergency Schedule GGVSE: Gefahrgutverordnung Straße und Eisenbahn GGVSee: dto. See IATA-DGR: Intern. Air Transport Association - Dangerous Goods Regulation</p>

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<p>Further information</p> <p>Revised date:</p>	<p>IMDG-Code: Intern. Maritime Dangerous Goods Code LQ: (limited quantity) MFAG: Medical First Aid Guide N.O.S.: not otherwise specified TRGS: Techn. Regeln für Gefahrstoffe UN-Nr.: (United Nations Number): Von den Vereinten Nationen den gefährlichen Gütern zugeordnete Nummer VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe</p> <p>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.</p> <p>03.11.2012</p>
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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractors` safety data sheet.)