



10.06.2016



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

INTERNATIONAL STANDARD NORM ISO 11014-1

<p>Trade name: Fluxi FL 88 LF</p>	<p>Flux Dispenser</p> <p style="text-align: right;">F-SW 33 DIN EN 29454 / 1.2.3.A</p>
<p>1.) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</p> <p>1.1) Manufacturer Supplier: Address:</p> <p>Responsible Department: Emergency telephone number:</p> <p>Product identifier:</p> <p>1.2) Relevant identified uses of the substance or mixture and uses advised against:</p> <p>Use of the substance/mixture:</p> <p>Uses advised against:</p>	<p>EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim</p> <p style="text-align: right;">Tel. 09342 - 6413 Fax: 09342 - 6417</p> <p>QS</p> <p>Flux dispenser FL 88 LF</p> <p>Fluxes Industrial use of processing aids. Process regulator or aid. Surface active agent.</p> <p>Do not use for private purposes (household).</p>
<p>2.) HAZARDS IDENTIFICATION</p> <p>2.1) Classification of the substance or mixture</p> <p>Classification according to Directive 67/548/EEC or 1999/45/EC</p> <p>Indications of danger:</p> <p>R-phrases:</p> <p>Classification according to Regulation (EC) No. 1272/2008 [CLP]</p> <p>Hazard categories:</p> <p>Hazard statements:</p>	<p>F – Highly flammable, Xi - Irritant</p> <p>Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.</p> <p>Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity – single exposure: STOT SE 3</p> <p>Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.</p>

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<p>2.2) Label elements</p> <p>Hazardous components which must be listed on the label</p> <p>Signal word:</p> <p>Pictograms:</p> <p>Hazard statements:</p> <p>Precautionary statements:</p> <p>2.3) Other hazards</p>	<p>Propan-2-ol; isopropyl alcohol; isopropanol</p> <p>Danger</p> <p>GHS02-GHS07</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>H225 H319 H336</p> <p>Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.</p> <p>P210 P233 P241 P242 P243 P261 P271 P280 P303+P361+P353 P304+P340 P312 P305+P351+P338 P337+P313 P370+P378 P235 P403+P233 P405 P501</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use SECTION 5: Firefighting measures to extinguish. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to Dispose of this material and its container to hazardous or special waste collection point.</p> <p>No information available.</p>
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10.06.2016

3.) <u>COMPOSITION / INFORMATION ON INGREDIENTS</u>			
3.1) Mixtures Chemical characterization:		Contains: Alcohol, Activator, resin	
3.2) Mixtures Hazardous components:			
Chemical name		Quantity %	Classification according to Directive 67/548/EEC Classification according to Regulation (EC) Nr. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	EC No 200-661-7 CAS No 67-63-0 Index No 603-117-00-0 REACH No	70-100	F – Highly flammable, Xi – Irritant, R11-36-67 Flam. Liq.2, Eye Irrit. 2, STOT SE 3; H225, H319, H336
adipic acid	EC No 204-673-3 CAS No 124-04-9 Index No 607-144-00-9 REACH No	1-5	Xi – Irritant R36 Eye Irrit. 2; H319
Full text of R-, H- and EUH-phrases: see section 16.			
Further information		Contains: resin According to EC directives or the corresponding national regulations the product does not have to be labelled.	
4.) <u>FIRST AID MEASURES</u>			
4.1) Description of first aid measures General information: After inhalation: After contact with skin: After contact with eyes: After ingestion:		In case of accident or unwellness, seek medical advice immediately (show directions for use safety data sheet if possible). Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use safety data sheet if possible). Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse mouth immediately and drink plenty of water.	
4.2) Most important symptoms and effects, both acute and delayed		Rinse mouth immediately and drink plenty of water.	
4.3) Indication of any immediate medical attention and special treatment needed		Treat symptomatically. No known symptoms to date.	

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10.06.2016

<p>5.) <u>FIREFIGHTING MEASURES</u></p> <p>5.1) Extinguishing media Suitable extinguishing media:</p> <p>Unsuitable 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>D powder, water</p> <p>Flammable. Vapours can form explosive mixtures with air.</p> <p>In case of fire: Wear self-contained breathing apparatus</p> <p>Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>
<p>6.) <u>ACCIDENTAL RELEASE MEASURES</u></p> <p>6.1) Personal precautions, protective equipment and emergency procedures</p> <p>6.2) Environmental precautions:</p> <p>6.3) Methods and material for containment and cleaning up</p> <p>6.4) Reference to other sections</p>	<p>Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.</p> <p>Do not allow uncontrolled discharge of product into the environment. Danger of explosion.</p> <p>Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.</p> <p>Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13. Treat the recovered material as Prescribed in the section on waste disposal.</p> <p>See protective measures under point 7 and 8.</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>Further information on handling:</p>	<p>If handled uncovered, arrangements with local exhaust ventilation have to 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 can form explosive mixtures with air.</p> <p>Avoid contact with skin and eyes. Do not spray on naked flames or any incandescent material.</p>

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10.06.2016

<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>Further information on storage conditions:</p> <p>7.3) Specific end use(s)</p>	<p>Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.</p> <p>Always close containers tightly after the removal of product. Keep container tightly closed. Protect against direct sunlight.</p> <p>Surface active agent. Further information: refer to Technical Data Sheet.</p>																																			
<p>8.) <u>EXPOSURE CONTROLS / PERSONAL PROTECTION</u></p> <p>8.1) Control parameters</p> <p>Exposure limits (EH40)</p> <table border="1" data-bbox="240 1039 1482 1171"> <thead> <tr> <th>CAS No</th> <th>Substance</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>Ethanol</td> <td>1000</td> <td>1920</td> <td></td> <td>TWA (8 h)</td> <td>WEL</td> </tr> <tr> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>STEL (15 min)</td> <td>WEL</td> </tr> <tr> <td>67-63-0</td> <td>Propan-2-ol</td> <td>400</td> <td>999</td> <td></td> <td>TWA (8 h)</td> <td>WEL</td> </tr> <tr> <td></td> <td></td> <td>500</td> <td>1250</td> <td></td> <td>STEL (15 min)</td> <td>WEL</td> </tr> </tbody> </table>	CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin	64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL			-	-		STEL (15 min)	WEL	67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL			500	1250		STEL (15 min)	WEL	
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<p>Additional advice on limit values:</p> <p>8.2) Exposure controls</p> <p>Appropriate engineering controls:</p> <p>Protective and hygiene measures:</p> <p>Eye/face protection:</p> <p>Hand protection:</p>	<p>Use appropriate respiratory protection.</p> <div data-bbox="747 1291 1421 1407" style="display: flex; justify-content: space-around; align-items: center;">      </div> <p>If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.</p> <p>Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.</p> <p>Suitable eye protection: goggles.</p> <p>When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.</p>																																			

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10.06.2016

<p><u>Auto-ignition temperature</u> Solid: Gas: Decomposition temperature:</p> <p><u>Oxidizing properties:</u> Vapour pressure (at 20 °C): Vapour pressure (at 50 °C): Density: Water solubility:</p> <p><u>Solubility in other solvents:</u> Partition coefficient: Vapour density: Evaporation rate: Solvent content:</p> <p>9.2) Other information</p> <p>Solid content:</p>	<p>not applicable not applicable not determined</p> <p>Not oxidizing.</p> <p>48 hPa 236 hPa ca. 0,8 g/cm³ slightly soluble</p> <p>not determined</p> <p>not determined not determined not determined ca. 97 %</p> <p>not determined</p> <p>In contact with water do not emit flammable gases. Thermal decomposition at °C: >300</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>Further information</p>	<p>Flammable, Ignition hazard. No risks worthy of mention.</p> <p>Stability and reactivity: Yes. In contact with water do not emit flammable gases.</p> <p>Reacts violently with peroxides. Alkali metals.</p> <p>Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.</p> <p>No data available.</p> <p>Thermal decomposition can lead to the escape of irritating gases and vapours.</p> <p>No special measures are necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.</p>
<p>11.) <u>TOXICOLOGICAL INFORMATION</u></p> <p>11.1) Information on toxicological effects</p> <p>Toxicocinetics, metabolism and distribution</p>	<p>No data available</p>






10.06.2016

<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 products:</p> <p>Waste disposal number of used product:</p> <p>Waste disposal number of contaminated packaging:</p> <p>Contaminated packaging</p>	<p>Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.</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> <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> <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>Wash with plenty of water. Completely emptied packages can be recycled.</p>
<p>14.) <u>Transport information</u></p> <p>14.1) Land transport (ADR/RID) GGVSE:</p> <p>UN-number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:</p> <p>Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:</p> <p>14.2) Inland waterways transport (ADN)</p> <p>UN-number: UN proper shipping name:</p>	<p>UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol) 3 II 3</p>  <p>F1 274 601 640C 1 L E2 2 33 D/E</p> <p>UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol)</p>

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10.06.2016

<p>Transport hazard class(es): Packing group: Hazard label:</p>	<p>3 II 3</p> 
<p>Classification code: Special Provisions: Limited quantity: Excepted quantity:</p> <p>14.3) Marine transport (IMDG)</p> <p>UN-number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:</p> <p>Special Provisions: Limited quantity: Excepted quantity: EmS: Segregation group:</p>	<p>F1 274 601 640C 1 L E2</p> <p>UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol) 3 II 3</p>  <p>274 1 L E2 F-E, S-E IMDG-Code segregation group not applicable.</p>
<p>14.4) Air transport (IATA/DGR) (ICAO)</p> <p>UN-number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:</p> <p>Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity:</p> <p>IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:</p>	<p>UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol) 3 II 3</p>  <p>A3 1 L Y341 E2</p> <p>353 5 L 364 60 L</p>
<p>14.5) Environmental hazards ENVIRONMENTALLY HAZARDOUS:</p>	<p>no</p>

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10.06.2016

<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>Other applicable information</p>	<p>WARNING: Combustible liquid. Do not allow uncontrolled discharge of product into the environment.</p> <p>Not applicable etc.:</p> <p>Discharge into the environment must be avoided.</p>
<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</p> <p>2010/75/EU (VOC):</p> <p>2004/42/EC (VOC):</p> <p>Additional information</p> <p>National regulatory information</p> <p>Employment restrictions:</p> <p>Water contaminating class (D):</p> <p>15.2) Chemical safety assessment</p>	<p>99,1 %</p> <p>96,6 %</p> <p>To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC.</p> <p>Observe employment restrictions for young people.</p> <p>1 - slightly water contaminating</p> <p>Chemical safety assessments for substances in this mixture were not carried out.</p>
<p>16.) OTHER INFORMATION</p> <p>Abbreviations and acronyms:</p> <p>Relevant R-phrases (number and full text):</p> <p>Relevant H-and EUH-phrases (number and full text):</p>	<p>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonized System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service</p> <p>LC50 : Lethal concentration, 50 %</p> <p>LD50 : Lethal dose, 50 %</p> <p>11 Highly flammable</p> <p>36 Irritating to eyes</p> <p>67 Vapours may cause drowsiness and dizziness</p> <p>H225 Highly flammable liquid and vapour</p> <p>H319 Causes serious eye irritation</p> <p>H336 May cause drowsiness or dizziness</p>

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Zentrum für Löt- und Entlötsysteme



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10.06.2016

Further 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:	22.05.2015
Revision No.:	2.02

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet).

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