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

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade name: FLUXI FL 88	Flux Dispenser F-SW 34 DIN ISO 29454 / 2.2.3.A
1.) <u>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</u> 1.1.) Manufacturer/Supplier Address: 1.2) Product identifier 1.3) Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture	EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim e-Mail: Edsyn-europa@t-online.de Website: www.edsyn-europa.de Tel. 09342 - 6413 Fax: 09342 - 6417 Flux dispenser FLUXI FL 88 Fluxes Industrial use of processing aids.
2.) <u>HAZARDS IDENTIFICATION</u> 2.1) Classification of the substance or mixture Classification according to Directive 67/548/EEC or 1999/45/EC Indications of danger: R-phrases: Classification according to Regulation (EC) No. 1272/2008 [CLP] Hazard categories: Hazard Statements: 2.2) Label elements Hazardous components which must be listed on the label:	F – Highly flammable, Xi – Irritant Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness. Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity – single exposure: STOT SE 3 Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. propan-2-ol; isopropyl alcohol; isopropanol



Signal word:	Danger	
Pictograms:	GHS02-GHS07	
		
Hazard statements:	H225 H319 H336	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statements:	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	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.
Special labelling of certain mixtures:	EUH208	Contains Rosin, colophony. May produce an allergic Reaction.
2.3) Other hazards	No information available.	



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3.) <u>COMPOSITION / INFORMATION ON INGREDIENTS</u>		
3.1) Mixtures		
Chemical characterization	Contains: Alcohol	
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	80-100
		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	1-4
		Xi – Irritant R36 Eye Irrit. 2; H319
Itaconic acid	EC No 202-599-6 CAS No 97-65-4 Index No REACH No	1-4
		Xi – Irritant, R41 Eye Dam. 1; H318
Rosin, colophony	EC No 232-475-7 CAS No 8050-09-7 Index No 650-015-00-7 REACH No	0-2
		R43 Skin Sens. 1; H317
Full text of R-, H- and EUH-phrases: see section 16.		
3.2) Further information		Contains: resin. >> No risks worthy of mention.
4.) <u>FIRST AID MEASURES</u>		
4.1) Description of first aid measures		
After inhalation:	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.	
After contact with skin:	After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.	
After contact with eyes:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.	
After ingestion:	Rinse mouth immediately and drink plenty of water.	
4.2) Most important symptoms and effects, both acute and delayed		No information available.

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4.3) Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
5.) <u>FIREFIGHTING MEASURES</u> 5.1) Extinguishing media Suitable extinguishing media: 5.2) Special hazards arising from the substance or mixture 5.3) Advice for firefighters Additional information:	Water spray jet, Carbon dioxide (CO₂). Foam. Extinguishing powder. Flammable. Vapours can form explosive mixtures with air. In case of fire: Wear self-contained breathing apparatus. 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.
6.) <u>ACCIDENTAL RELEASE MEASURES</u> 6.1) Personal precautions, protective equipment and emergency procedures 6.2) Environmental precautions 6.3) Methods and material for containment and cleaning up 6.4) Reference to other sections	Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothes. Use personal protection equipment. Do not allow uncontrolled discharge of product into the environment. Danger of explosion. 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. Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.
7.) <u>HANDLING AND STORAGE</u> 7.1) Precautions for safe handling Advice on safe handling: Advice on protection against fire and explosion: 7.2) Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels:	If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. 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.

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Advice on storage compatibility:	Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.					
7.3) Specific end use(s)	Fluxes Industrial use of processing aids.					
8.) EXPOSURE CONTROLS / PERSONAL PROTECTION						
8.1) Control parameters						
Exposure limits (EH40)						
CAS No	Substance	ppm	mg/m³	fibres/m³	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
8050-09-7	Rosin-based solder flux fume	-	0.05		TWA (8 h)	WEL
		-	0.15		STEL (15 min)	WEL
8.2) Exposure controls						
Appropriate engineering controls: If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.						
8.3) Personal protection Protective and hygiene measures: 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. Eye/face protection: Suitable eye protection: goggles. Hand protection: 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.						
<u>Additional protection measures for the hands</u> Hand protection: DIN EN 374 <u>CR (polychloroprenes, Chloroprene rubber)</u> Thickness of glove material: 0,65 mm penetration time (maximum wearing period): > 120 min. <u>NBR (Nitrile rubber)</u> Thickness of glove material: 0,4 mm penetration time (maximum wearing period): > 480 min.						

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Skin protection: Respiratory protection: Environmental exposure controls	Breakthrough times and swelling properties of the material must be taken into consideration. Take recovery periods for skin regeneration. In the case of wanting to use the gloves again, clean them before taking off and air them well. Use gloves only once. When handling with chemical substances, protective gloves must be worn with CE label including the four control digits. Before using check leak tightness / impermeability. Flame-retardant protective clothing. Wear anti-static footwear and clothing. In case of inadequate ventilation wear respiratory protection. (In case of inadequate ventilation) wear respiratory protection. Use appropriate respiratory protection. Use only respiratory protection equipment with CE-symbol including four-digit test 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! Filtering device (full mask or mouthpiece) with filter: A No special measures are necessary.
9.) <u>PHYSICAL AND CHEMICAL PROPERTIES</u> 9.1) Information on basic physical and chemical properties Physical state: Colour: Odour: pH-Value: <u>Changes in the physical state</u> Melting point: Initial boiling point and boiling range: Flash point: <u>Flammability</u> Solid: Gas: Lower explosion limits: Upper explosion limits: <u>Auto-ignition temperature</u> Solid: Gas: Decomposition temperature: <u>Oxidizing properties:</u> Vapour pressure: (at 20 °C) Vapour pressure: (at 50 °C)	liquid light yellow Alcohol Test-method not applicable etc.: not determined ca. 80 °C 12 °C not applicable not applicable 2 vol. % 12 vol. % not applicable not applicable not determined Not oxidizing. 48 hPa 236 hPa

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Density: Water solubility: <u>Solubility in other solvents:</u> Partition coefficient: Vapour density: Evaporation rate: Solvent content:	ca. 0,8 g/cm³ slightly soluble not determined ca. 97 % not determined not determined not determined																														
9.2) Other information Solid content:	 not determined																														
10.) <u>STABILITY AND REACTIVITY</u>																															
10.1) Reactivity	Flammable, Ignition hazard. No risks worthy of mention.																														
10.2) Chemical stability	Stability and reactivity: Yes																														
10.3) Possibility of hazardous reactions	Violent reaction with: Oxidizing agents, strong.																														
10.4) Conditions to avoid	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.																														
10.5) Incompatible materials	Alkali metals.																														
10.6) Hazardous decomposition products	Thermal decomposition can lead to the escape of irritating gases and vapours.																														
11.) <u>TOXICOLOGICAL INFORMATION</u>																															
11.1) Information on toxicological effects Acute toxicity	<u>adipic acid</u> <table><tr><th>CAS No.</th><th>Exposure routes</th><th>Method</th><th>Dose</th><th>Species</th><th>Sources</th></tr><tr><td>124-04-9</td><td>oral</td><td>LD50 mg/kg</td><td>ca.5700</td><td>Rat</td><td></td></tr><tr><td></td><td>inhalative (4 h) aerosol</td><td>LC50</td><td>>7,7mg/l</td><td>Rat</td><td></td></tr></table> <u>Itaconic acid</u> <table><tr><th>CAS No.</th><th>Exposure routes</th><th>Method</th><th>Dose</th><th>Species</th><th>Sources</th></tr><tr><td>97-65-4</td><td>oral</td><td>LD50 mg/kg</td><td>>2000 mg/kg</td><td>Rat</td><td></td></tr></table>	CAS No.	Exposure routes	Method	Dose	Species	Sources	124-04-9	oral	LD50 mg/kg	ca.5700	Rat			inhalative (4 h) aerosol	LC50	>7,7mg/l	Rat		CAS No.	Exposure routes	Method	Dose	Species	Sources	97-65-4	oral	LD50 mg/kg	>2000 mg/kg	Rat	
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CAS No.	Exposure routes	Method	Dose	Species	Sources																										
97-65-4	oral	LD50 mg/kg	>2000 mg/kg	Rat																											
Additional information on tests	This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]																														
12.) <u>ECOLOGICAL INFORMATION</u>																															
12.1) Toxicity:	The product is not: Ecotoxic.																														

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14.) <u>TRANSPORT INFORMATION</u> 14.1) Land transport ADR/RID/GGVSE UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label: Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code: 14.2) Inland waterways transport (ADN) UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label: Classification code: Special Provision: Limited quantity: Excepted quantity: 14.3) Marine transport (IMDG) UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:	UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol) 3 II 3  F1 274 601 640C 1 L E2 2 33 D/E UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol) 3 II 3  F1 274 601 640C 1 L E2 UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol) 3 II 3 
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Special Provision: Limited quantity: Excepted quantity: EmS: Segregation group: 14.4) Air transport (ICAO)IATA/DGR: UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label: Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions- Passenger: IATA-max. quantity-Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo: 14.5) Environmental hazards ENVIRONMENTALLY HAZARDOUS: 14.6) Special precautions for user 14.7) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	274 1 L E2 F-E, S-E IMDG-Code segregation group not applicable. UN1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol) 3 II 3  A3 1 L Y341 E2 353 5 L 364 60 L no Warning: Combustible liquid. not applicable.
15.) <u>REGULATORY INFORMATION</u> 15.1) Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulatory information 2010/75/EU (VOC): 2004/42/EC (VOC) : Additional information	100 % 100 % To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC.

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National regulatory information Employment restriction: Water contaminating class (D): Skin resorption/Sensitization: 15.2) Chemical safety assessment	Observe employment restrictions for young people. 1 – slightly water contaminating. Causes allergic hypersensitivity reactions. Chemical safety assessment for substances in this mixture were not carried out.
16.) OTHER INFORMATION Abbreviations and acronyms: Relevant R-phrases (Number and full text): Relevant H- and EUH-phrases (Number and full text): Further information Revised date: Revision No:	ADR: (Accord européen sur le Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)) : International Maritime Code for Dangerous Goods IMDG: International Air Transport Association IATA: Globally Harmonized System of Classification and Labelling of Chemicals GHS: European Inventory of Existing Commercial Chemical Substances EINECS: European List of Notified Chemical Substances ELINCS: Chemical Abstracts Service CAS: Lethal concentration, 50 % LC50 : Lethal dose, 50 % LD50 : 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. 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. EUH208 Contains Rosin, colophony. May produce an allergic reaction. 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. 22.05.2015 4.02

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