Zentrum für Löt- und Entlötsysteme



EDSYN GMBH EUROPA, Postfach 1169, D-97888 Kreuzwertheim

16.07.2014

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

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade name: Fluxi FL 88 LF		Flux Dispens	er	F-SW 33 DIN EN 29454 / 1.2.3.A Solid content: 2,5%
1.)	MANUFACTURER Address:	EDSYN GMBH Finkenweg 2 D 97892 Kreuzy		Tel. 09342 - 6413 Fax: 09342 - 6417
2.)	HAZARD IDENTIFICATION			
2.1)	Classification of the substance or mixture	Label elements	/ Danger symbols	
		F - Highly flamn	nable Xi - Ir	ritant
	R-phrases	36 Irritating	lammable. g to eyes. s may cause drows	siness and dizziness.
	S-phrases	16 Keep av 23 Do not 26 In case and see 33 Take pr	breathe Avoid brea of contact with eye k medical advice.	of ignition - No smoking. thing dust/fume/gas/mist/vapours/spray. s, rinse immediately with plenty of water ures against static discharges.
	Special labelling of certain mixtures		ofessional users. strial installations or	r professional treatment only.
3.)	COMPOSTITION / INFORMATION OF INGREDIENTS			
3.1)	Chemical characterization:	Contains: Alcoh	ol, Activator, resin	
3.2)	Hazardous components: Chemical name:	propan-2-ol; is EC No. CAS No. Index No. Quantity:	opropyl alcohol; i 200-661-7 67-63-0 603-117-00-0 70-100%	sopropanol Classification: F; R11-36-67; Xi GHS classification: Flam.Liq.2 Eye Irrit.2, STOT SE 3, H225 H319, H336
	Chemical name:	adipic acid EC No. CAS No. Index No. Quantity: Full text of R an	204-673-3 124-04-9 607-144-00-9 1-5% d H phrases: see S	Classification: Xi, R36 GHS classification: Eye Irrit. 2, H319 Section 16

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	Further information	Contains: resin According to EC directives or the corresponding national regulations there is no labelling obligation for this product.
4.)	FIRST AID MEASURES	
4.1)	Description of first aid measures	
	General information:	In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
	After inhalation:	Provide fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
	After contact with skin:	Wash with generous amount of water. Change contaminated clothing.
	After contact with eyes:	If product gets into the eyes, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.
	After ingestion:	Rinse mouth immediately and drink large quantities of water.
4.2)	Most important symptoms and effects, both acute and delayed	Rinse mouth immediately and drink large quantities of water.
4.3)	Indication of any immediate medical attention and special treatment needed	No symptoms known up to now.
5.)	FIRE-FIGHTING MEASURES	
5.1)	Extinguishing media Suitable extinguishing media:	Carbon dioxide (CO2), foam, extinguishing powder.
	Extinguishing media which must not be used for safety reasons:	D powder, water
5.2)	Special hazards arising from the substance or mixture	Combustible. Vapours may form explosive mixtures with air. Carbon monoxide and carbon dioxide may result
5.3)	Advice for firefighters	In case of fire: Wear self-contained breathing apparatus. Safety clothes and compressed air from tanks. Fire class: B
	Additional information:	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.
6.)	ACCIDENTAL RELEASE MEASURES	
6.1)	Personal precautions, protective equipment and emergency procedures	Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

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6.2)	Environmental precautions:	Do not allow uncontrolled leakage of product into the environment. Explosion hazard.							
6.3)	Methods and material for containment and cleaning up Reference to the other sections	Treat the assimilated material according to the section on waste disposal.							
	Reference to the other sections	See protective measures under Point 7 and 8.							
7.)	HANDLING AND STORAGE								
7.1)	Precautions for safe handling								
	Advice on safe handling:	In case of conot breathe				built-in suction mu	ıst be used. Do		
	Advice on protection against fire and explosion:	Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.							
	Further information handling:	Avoid conta	act with s	kin and eye	es. Do not	spray into flames	or ignition		
7.2)	Conditions for safe storage, including any incompatibles	sources.							
	Requirements for storage rooms and vessels:	Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.							
	Advice on storage compatibility:	Do not store together with: Material, rich in oxygen, oxidizing.							
	Further information on storage conditions:	Always close containers tightly after the removal of product. Keep container tightly closed. Protect from direct sunlight.							
7.3)	Specific end use(s)	Surface active agent. Further information: refer to Technical Data Sheet.							
8.)	EXPOSURE CONTROLS / PERSONAL PROTECTION								
8.1)	Control parameters	Exposure li	mits (EH	40)					
	Substance:	ETHANOL (21.16)							
		CAS No.	ppm	mg/m³	fibres/ ml	Category	Origin		
		64-17-5	1000	1920 -		TWA (8 h) STEL (15 min	WEL WEL		
	Substance:	Propan-2-ol							
		CAS No.	ppm	mg/m³	fibres/ ml	Category	Origin		
		67-63-0	400 500	999 1250		TWA (8 h) STEL (15 min	WEL WEL		

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Use appropriate respiratory protection. Additional advice on limit values: 8.2) Exposure controls In case of opening handling equipment with built-in suction must be used. Occupational exposure controls: Do not breathe gas/fumes/vapours/spray. 8.3) Personal protection equipment: Take off immediately all contaminated clothing. Protect skin by using skin Protective and hygiene measures: protective cream. After work, wash hands and face. When using do not eat or drink. Wear respiratory protection. Use appropriate respiratory protection. Only Respiratory protection: use breathing apparatus with CE-label including the four-digit identification number. The filter class must be suitable for the maximum contaminant concentration (gas/vapours/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 mouthpiece) with filter: A Additional protection measures for the hands. Hand protection: DIN EN Hand protection: 374. -CR (polychloroprenes, Chloroprene rubber). Thickness of glove material: 0.65mm Penetration time (maximum wearing period): >120min. -NBR (Nitrile rubber): Thickness of glove material: 0,4mm Penetration time (maximum wearing period): >480min. 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. Tightly sealed safety glasses. Eye protection: For the protection against direct skin contact, body protective clothing is Skin protection: essential (in addition to the usual working clothes. No special measures are necessary. **Environmental exposure controls:** AGW: place of work marginal value, MAK: Maximum place of work concentration 9.) PHYSICAL AND CHEMICAL **PROPERTIES** 9.1) Information on basic physical and chemical properties Physical state: Colour: clear / orange-red (light red) Odour: alcohol

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9.2)	Changes in the physical state Density: Water solubility: pH: Viscosity: Flashpoint: Boiling point: Ignition temperature: Vapour pressure (20° C): Vapour pressure (50° C): Solvent content: Lower explosion limits: Upper explosion limits: Explosiveness:	In contact windecomposition		nit flammable ga	ases. Therma	al	
10.	STABILITY AND REACTIVITY						
10.1)	Reactivity	No risks worthy of mention.					
10.2)	Chemical stability	Stability and reactivity: Yes. In contact with water do not emit flammable gases.					
10.3)	Possibility of hazardous reactions	Reacts violently with peroxides. Alkali metals.					
10.4)	Conditions to avoid	Keep away from heat. Ignition hazard.					
10.5)	Incompatible materials	No data available.					
10.6)	Materials to avoid	with strong oxidizing agents					
10.7)	Hazardous decomposition products	Thermal decomposition can lead to the escape of irritating gases and vapours.					
	Further information	No special measures are necessary. In case of open handling equipment with built-in suction must be used.					
11.)	TOXICOLOGICAL INFORMATION						
11.1)	Information on toxicological effects Toxicity tests: Toxicocinetics, metabolism and distribution	No data available					
	Acute toxicity:	adipic acid					
		CAS No	Exposure routes	Method	Dose	Species	
		124-04-9	oral	LD50 mg/kg	ca.5700	Rat	
			inhalative (4 h)	LC50	>7,7mg/l	Rat	

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	Irritating on the:							
	eyes:	irritant						
	skin:	irritant, degreasing e	effect on skir	ı				
	respiratory tract:	irritant, inhalation of headache, drowsine				swallowing might	lead to	
	Sensitisation:	none						
	Additional information on tests		The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).					
12.)	ECOLOGICAL INFORMATION							
12.1)	Toxicity	adipic acid CAS No 124-04-9						
		Aquatic toxicity	Methode	Dosi s	h	Spezies	Quelle	
		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		
	Persistence and degradability	The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).						
12.3)	Bioaccumulative potential	On the basis of existing data about disposal/decomposition and bio- accumulation potential, long term environmental damage is unlikely.						
		Partition coefficien	t n-octanol	/water				
		Chemical name CAS-No Log Pow						
		adipic acid	124-0	4-9		0,081		
12.4)	Mobility in soil	No data available.						
12.5)	Results of PBT and vPvB assessment:	This substance does not meet the criteria for classification as PBT or vPvB.						
12.6)	Other adverse effects	No data available.						
	Further information	The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).						
		The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).						
13.)								
	DISPOSAL CONSIDERATIONS							
13.1)								

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Waste disposal number of waste from residues/unused and used products:

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 disposal number of contaminated packaging:

150102

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging.

Contaminated packaging

Water (with cleaning agent). Completely emptied packings can be recycled.

14.) **Transport information**

14.1) Land transport (ADR/RID) GGVSE:

UN-number:

UN proper shipping name: Transport hazard class(es):

Packing group: Hazard label:

LIN1993

FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol)

3 Ш

3



274 601 640C

Classification code:

Special Provisions: Limited quantity:

Transport category: **Hazard No:**

Tunnel restriction code:

Other applicable information (land

transport):

F2

1 L

2

33

D/E

14.2) Inland waterways transport (ADN)

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)

Ш

3



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Classification code: **Special Provisions:**

Limited quantity:

Other applicable information (inland waterways transport):

Marine pollutant: EmS:

14.3) Marine transport (IMDG)

UN-number: UN proper shipping name: Transport hazard class(es):

Packing group: Hazard label:

Special Provisions: Limited quantity: EmS:

Other applicable information (marine transport):

14.4) Air transport (IATA/DGR) (ICAO)

UN/ID-number: UN proper shipping name: Transport hazard class(es):

Packing group: Hazard label:

Special Provisions:

Limited quantity Passenger: IATA-packing instructions -

Passenger:

IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:

Other applicable information (air transport)

14.5) Environmental hazards

274 601 640C

1 L

E2

No

F-E / S-E

UN1993

FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol)

Ш 3

274 1 L

F-E, S-E

E2

UN1993

FLAMMABLE LIQUID, N.O.S. (propan-2-ol, isopropyl alcohol, isopropanol)

3 Ш

3



АЗ 1 L

353

5 L

364

60 L

yes

Passenger-LQ: Y341

Dangerous for the environment:

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14.6)	Special precautions for user	Do not allow uncontrolled leakage of product into the environment.		
14.7)	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code	Not applicable etc.:		
	Other applicable information	Dumping into	the environment must be prevented.	
15.)	REGULATORY INFORMATION / EU- REGULATIONS			
15.1)	Safety, health and environment regulations/legislation specific for the substance or mixture			
	EU regulatory information 1999/13/EC (VOC):	97 %		
	Additional information	The receiver of laws and regu	of our product is singulary responsible for adhering to existing lations.	
	National regulatory information Employment restrictions:	restrictions for	loyment restrictions for young people. Observe employment r child bearing mothers and nursing. Observe employment r women of child-bearing age.	
	Water contaminating class (D):	1 - Slightly wa	ter contaminating	
15.2)	Chemical safety assessment	Chemical safe	ety assessments for substances in this mixture were not out.	
16.)	OTHER INFORMATION			
	Full text of R phrases referred to under Sections 2 and 3	11 Highly flammable36 Irritating to eyes67 Vapours may cause drowsiness and dizziness		
	Full text of H statements referred to under Sections 2 and 3	H225 Highly flammable liquid and vapour H319 Causes serious eye irritation H336 May cause drowsiness or dizziness		
	Essential revisions – see chapter:	none		
	Abbreviations:	ACGIH:	American Conference of Governmental Industrial	
		ADR: CAS: EmS: GGVSE: GGVSee: IATA-DGR: IMDG-Code: LQ:	Hygienists Accord Européen relatif au Transport international des Marchandises Dangereuses par Route Chemical Abstract Services Emergency Schedule Gefahrgutverordnung Straße und Eisenbahn dto. See Intern. Air Transport Association - Dangerous Goods Regulation Intern. Maritime Dangerous Goods Code (limited quantity)	

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Further information

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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 wS: Verwaltungsvorschrift wassergefährdende Stoffe

VwVwS: Verwaltungsvorschrift wassergefährdende Stoff

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: 30.04.2013

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