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according to 1907/2006/EC, Article 31

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1 Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Trade name: 837LFWS · Other Means of Identification: Liquid Flux: Lead Free, Water Soluble · Related Part Number: 837LFWS-Liquid, 837LFWS-1L, 837LFWS-4L · UFI: DHR0-J0RX-500P-NP43 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Water soluble flux · Uses advised against Not applicable · 1.3 Details of the supplier of the safety data sheet M.G. Chemicals Ltd. · Manufacturer/Supplier: MG Chemicals Ltd. (Head Office) 1210 Corporate Drive Burlington, Ontario L7L 5R6 CANADA +(1) 800-340-0772 MG Chemicals Heame House, 23 Bliston Street Sedgely Dudley DY3 1JA. UNITED KINGDOM +(44) 1663 362888 sales@mgchemicals.com MG Chemicalst Ltd. Level 2, Vision Exchange, Building Territorials Street, Zone 1, Central Business, District, Birkirkara CBD 1070. MALTA · Further information obtainable from: sds@mgchemicals.com · 1.4 Emergency telephone number: For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents) USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388) For emergencies involving the transport of dangerous goods; 24/7 service CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones Verisk 3E (Access code: 335388), +(44) 20 3514787 Other emergency telephone numbers: +(0) 800 680 0425 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 GB

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e Hazaro	Is identification
	sification of the substance or mixture cation according to Regulation (EC) No 1272/2008
	GHS02 flame
Flam. Lic	g. 2 H225 Highly flammable liquid and vapour.
	GHS07
Eve Irrit.	2 H319 Causes serious eye irritation.
	E 3 H336 May cause drowsiness or dizziness.
Labellin The proc	el elements g according to Regulation (EC) No 1272/2008 luct is classified and labelled according to the GB CLP regulation. pictograms
GHS02	GHS07
-	vord Danger
 Hazard- propan-2 	determining components of labelling:
	statements
	ghly flammable liquid and vapour.
	uses serious eye irritation.
	ay cause drowsiness or dizziness.
	ionary statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignit sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, and eye protection.
	378 In case of fire: Use CO2, powder or water spray to extinguish.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/nation international regulations.
	er hazards
· <i>Hesults</i>	of PBT and vPvB assessment
DDT M	
· PBT: No	0.3000.3000
• vPvB: N	
• vPvB: N • Determi	nation of endocrine-disrupting properties ne Disruptor substance ≥ 0.1% = none

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3 Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

 CAS: 67-63-0
 propan-2-ol
 75.0%

 EINECS: 200-661-7
 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
 2.0%

 CAS: 56-81-5
 glycerol
 2.0%

 EINECS: 200-289-5 substance with a Community workplace exposure limit
 4dditional information: For the wording of the listed bazard phrases refer to section 16

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture

- Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

• **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection:
- Keep ignition sources away Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

56-81-5 glycerol

WEL Long-term value: 10 mg/m³

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• **Respiratory protection:** Not required.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated

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in advance and has therefore to be checked prior to the application.

- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye/face protection



Tightly sealed goggles

9 Physical and chemical properties

General Information Physical state	Fluid
Colour:	
Odour:	According to product specification Characteristic
Odour threshold:	Not determined.
Melting point/freezing point: Boiling point or initial boiling point and	Undetermined.
	82.92.(67.62.0.propp. 2.al)
boiling range Elemmebility	82 °C (67-63-0 propan-2-ol)
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	2 Vol % (67-63-0 propan-2-ol)
Upper:	12 Vol % (67-63-0 propan-2-ol)
Flash point:	12 °C (67-63-0 propan-2-ol)
Auto-ignition temperature:	456 ℃
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C	<14 mm²/s
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure at 20 °C:	43 hPa (67-63-0 propan-2-ol)
Density and/or relative density	
Density at 20 °C:	0.85 g/cm³
Relative density	Not determined.
Bulk density:	797 kg/m³
Vapour density	Not determined.
9.2 Other information	
Appearance:	F heid
Form:	Fluid
Important information on protection o	f
health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation
	of explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	77.0 %
VOC (EC)	75.00 %
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 Solids content: 	23.0 %	
 Change in condition 		
· Evaporation rate	Not determined.	
 Information with regard to physica 	al hazard	
classes		
· Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Highly flammable	e liquid and vapour.
· Flammable solids	Void	
· Self-reactive substances and mixt	u res Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
 Self-heating substances and mixtu 	ires Void	
 Substances and mixtures, which e 	mit	
flammable gases in contact with w	vater Void	
 Oxidising liquids 	Void	
 Oxidising solids 	Void	
 Organic peroxides 	Void	
 Corrosive to metals 	Void	
 Desensitised explosives 	Void	

10 Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

67-63-0 propan-2-ol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

56-81-5 glycerol

Oral LD50 12,600 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation
- Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.

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- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · European waste catalogue
- HP3 Flammable

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN1219

14 Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name

· ADR

1219 ISOPROPANOL (ISOPROPYL ALCOHOL) ISOPROPANOL (ISOPROPYL ALCOHOL) (Contd. on page 8)

· IMDG

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· IATA · 14.3 Transport hazard class(es) · ADR, IMDG, IATA	lsopropanol (isopropyl a	(Contd. of page 7) alcohol)
 Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 14.7 Maritime transport in bulk according to IMO instruments 	3 Flammable liquids. 3 II Not applicable. Warning: Flammable liq 33 F-E,S-D B 19 Not applicable.	juids.
· Transport/Additional information:		
ADR Limited quantities (LQ) Excepted quantities (EQ)	ml	per inner packaging: 30 per outer packaging: 500
Transport category Tunnel restriction code	ml 2 D/E	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	ml	per inner packaging: 30
· UN "Model Regulation":	ml	per outer packaging: 500 PANOL (ISOPROPYL

15 Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act

- · Regulated explosives precursors
- None of the ingredients is listed.
- · Regulated poisons
- None of the ingredients is listed.
- Reportable explosives precursors
- None of the ingredients is listed.

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3