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Revision: 19.03.2024

according to WHS Regulations

Printing date 19.03.2024

Version number 4

1 Identification

- · Product identifier
- Trade name: 836LFNC
- · Other Means of Identification: Liquid Flux: Lead Free, No Clean
- · Related Part Number: 836LFNC, 836LFNC-1L, 836LFNC-4L, 836LFNC-P
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · 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

Mektronics Australia Pty Ltd 5 Prince William Drive Seven Hills NSW 2147 Australia www.mektronics.com.au sales@mektronics.com.au

- · Further information obtainable from: sds@mgchemicals.com
- · Emergency telephone number:

CHEMTREC Australia: + (61) 2-9037-2994

Other emergency telephone number: +(1) 703-527-3887

2 Hazard(s) Identification

· Classification of the substance or mixture



Flam. Liq. 2

H225 Highly flammable liquid and vapour.



Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

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Hazard pictograms

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GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

propan-2-ol (10-30 %)

· Hazard statements

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statements

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep cool.

Use only outdoors or in a well-ventilated area.

In case of fire: Use CO2, powder or water spray to extinguish.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

3 Composition and Information on Ingredients

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

64-17-5 ethanol 65-85%

Flam. Liq. 2, H225; Serious eye damage/irritation – Category 2A, H319

67-63-0 propan-2-ol 10-30%

♦ Flam. Liq. 2, H225; ♦ Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336

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

4 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.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

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Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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.

• Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
 Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
- · 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.

- 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.

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

8 Exposure controls and personal protection

· Additional information about design of technical facilities:

No further data; see section 7.

· Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

WES Long-term value: 1880 mg/m³, 1000 ppm

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67-63-0 propan-2-ol

WES Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm

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

· 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.

Protection of hands:

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 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 protection:



Tightly sealed goggles

9 Physical and Chemical Properties

- · General Information
- · Appearance:

Form:

Fluid

· Colour:

According to product specification

· Odour:

Characteristic Not determined.

· Odour threshold:

Not determined.

· pH-value: · Change in condition

· Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 78 ℃

· Flash point:

12 °C

Flammability (solid, gas):

Highly flammable.

Auto-ignition temperature:

365 ℃

Decomposition temperature:

Not determined.

· Ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

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· Explosion limits:

Lower: 2 Vol %
 Upper: 15 Vol %
 Vapour pressure at 20 °C: 59 hPa
 Vapour pressure at 50 °C: 280 hPa
 Density at 20 °C: 0.81 g/cm³
 Bulk density: 515–1,209 kg/m³
 Relative density Not determined.

Vapour densityEvaporation rateNot determined.Not determined.

· Solubility in / Miscibility with

water: Fully miscible.Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not determined.

· Kinematic at 20 °C: <3 mm²/s

· Solvent content:

• Organic solvents: 75–115 %
 • VOC (EC) 75–115 %
 • Solids content: 0.0 %

• Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

64-17-5 ethanol

Oral LD50 7,060 mg/kg (rat) Inhalative LC50/4 h 20,000 mg/l (rat)

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)

- · 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.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.

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- · 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.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation

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

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

14 Transport information

· UN-Number	۲
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· **ADG, IMDG, IATA** UN1987

· UN proper shipping name

· **ADG** 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL

ALCOHOL), ISOPROPANOL (ISOPROPYL

ALCOHOL))

· IMDG ALCOHOLS, N.O.S. (ETHANOL (ETHYL

ALCOHOL), ISOPROPANOL (ISOPROPYL

ALCOHOL))

· IATA Alcohols, n.o.s. (ETHANOL, ISOPROPANOL

(ISOPROPYL ALCOHOL))

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· Transport hazard class(es)

· ADG, IMDG, IATA



· Class 3 Flammable liquids.

· Label

· Packing group

· ADG, IMDG, IATA

Environmental hazards: Not applicable.

Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler

code): · EMS Number: F-E,S-D · Stowage Category

Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

Transport/Additional information:

· ADG

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging: 500

2

· Transport category Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging: 500

UN "Model Regulation": UN 1987 ALCOHOLS, N.O.S. (ETHANOL

(ETHYL ALCOHOL), ISOPROPANOL

(ISOPROPYL ALCOHOL)), 3, II

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). (Contd. on page 8)

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Hazard pictograms

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GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

propan-2-ol (10-30 %)

· Hazard statements

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements

Keep out of reach of children.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep cool.

Use only outdoors or in a well-ventilated area.

In case of fire: Use CO2, powder or water spray to extinguish.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- · Department issuing SDS: Product safety department.
- · Contact: sds@mgchemicals.com
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 · * Data compared to the previous version altered.

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