

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Lumea Methanol Chafing Fuel**
- **Registration number** 01-2119433307-44-X
- **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** Chafing fuel
- **Uses advised against** Consumer Uses
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Lumea Ltd
Hartnoll Business Centre
Tiverton
Devon, EX16 4NG
Tel.: +44 (0)845 601 7532
Fax: +44 (0)1884 252090
sales@lumea.co.uk
www.lumea.co.uk
- **Informing department:**
Department Sales:
Phone: +44 (0)845 601 7532
E-Mail: sales@lumea.co.uk
- **1.4 Emergency telephone number:**
Tel. +44 (0)845 601 7532 or
Tel. +44 (0)1884 255954
working days 9:00 to 17:30

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

STOT SE 1 H370 Causes damage to the central nervous system.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 1)

Hazard pictograms


GHS02 GHS06 GHS08

Signal word Danger

Hazard-determining components of labelling:

methanol

Hazard statements

- H225 Highly flammable liquid and vapour.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H370 Causes damage to the central nervous system.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards
Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Burning paste solidified by a gelling agent.

Dangerous components:

CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-X	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	< 100%
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Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information

 Personal protection for the First Aider.
 Instantly remove any clothing contaminated by the product.

After inhalation

 Supply fresh air or oxygen; call for doctor.
 In case of unsteady breathing or breathing arrest induce artificial respiration.

After skin contact

Remove contaminated clothing immediately.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 2)

Instantly wash with water and soap and rinse thoroughly.

Call a doctor immediately.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

Induce vomiting, only if person affected is fully conscious.

Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage).

- **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.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.

Disposal work has to be carried out with breathing protection and explosion-proof equipment.

- **Additional information**

Use water to keep fire exposed containers cool.

Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not inhale vapours.

Avoid contact with the product.

Keep away from ignition sources

- **6.2 Environmental precautions:**

Do not allow to enter pits and cellars.

Dilute with much water.

- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

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.

See Section 13 for information on disposal.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Do not inhale gases/vapours/aerosols.
 Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep breathing equipment ready.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 Store in cool location.
 Ensure sufficient ventilation.
 Accessible only for authorized persons.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**
 Keep container tightly sealed.
 Storage between 15 and 25 °C.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 WEL: workplace exposure limit
 IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

67-56-1 methanol

WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk
IOELV (European Union)	Long-term value: 260 mg/m ³ , 200 ppm Skin

- **DNELs**

67-56-1 methanol

Oral	DNEL (consumer, short-term, systemic)	8 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	8 mg/kg bw/day (human)
Dermal	DNEL (worker, short-term, systemic)	40 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	40 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	8 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	260 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	260 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	50 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	50 mg/m ³ (human)
	DNEL (worker, short-term, local)	260 mg/m ³ (human)
	DNEL (worker, long-term, local)	260 mg/m ³ (human)
	DNEL (consumer, short-term, local)	50 mg/m ³ (human)
DNEL (consumer, long-term, local)	50 mg/m ³ (human)	

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 4)

· PNECs
67-56-1 methanol

PNEC aqua (freshwater)	154 mg/L (.)
PNEC aqua (marine water)	15.4 mg/L (.)
PNEC STP	100 mg/L (.)
PNEC soil	23.5 mg/kg soil dw (.)
PNEC sediment (freshwater)	570.4 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	1,540 mg/L (.)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls
· Personal protective equipment
· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of insufficient removal by suction or longer inhalation a breathing protection is required.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter AX.

· Protection of hands:


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.

· 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.

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

· Eye protection:


Tightly sealed safety glasses.

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 5)

- **Body protection:**
Wear antistatic clothing made from natural fibres (cotton) or heat-resistant synthetic fibres.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	alcohol-like
- **pH-value:** Not determined.
- **Change in condition**

Melting point/freezing point:	-98 °C
Initial boiling point and boiling range:	64.7 °C
- **Flash point:** 11 °C
- **Ignition temperature:** 455 °C
- **Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- **Critical values for explosion:**

Lower:	5.5 Vol %
Upper:	44 Vol %
- **Vapour pressure at 20 °C:** 128 hPa
- **Density at 20 °C** 0.79 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**

dynamic at 20 °C:	0.597 mPas
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- **Solvent content:**

Organic solvents:	100.0 %
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- **9.2 Other information** No further relevant information available.

SECTION 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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with base metals forming hydrogen
Forms explosive gases / fumes
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Oxidizing agents, hydrides, zinc diethyl, halogens, magnesium in powdered form, hydrogen peroxide, acid halides, acid anhydrides, reducing agents, alkali metals and alkaline earth metals.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 6)

- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

Toxic if swallowed, in contact with skin or if inhaled.

- **LD/LC50 values that are relevant for classification:**

67-56-1 methanol

Oral	LD50	7,000 - 9,000 mg/kg (rhesus monkey)
		> 5,000 mg/kg (pig)
Dermal	LDL0	> 2,500 mg/kg (rat)
	LD50	17,100 mg/kg (rabbit)
Inhalative	LC50	128.2 mg/l/4h (rat)
	LC50	43.68 mg/l/6h (cat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
- **Serious eye damage/irritation** Slightly irritant
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):** Methanol can be absorbed by skin.
- **Acute effects (acute toxicity, irritation and corrosivity)**
Ingestion or absorption may cause blindness (irreversible damage of the optical nerve).
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **STOT-single exposure**
Causes damage to the central nervous system.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

67-56-1 methanol

EC50 (static)	> 10,000 mg/l/48h (Daphnia magna) (DIN 38412-11)
EC50 (static)	22,000 mg/l/96h (Pseudokirchneriella subcapitata) (OECD 201)

- **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.
- **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 bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

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Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

· **12.6 Other adverse effects** No further relevant information available.

(Contd. from page 7)

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

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

The waste code numbers mentioned are recommendations based on the probable use of the product.

· **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
HP 3	Flammable
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR/ADN, IMDG, IATA**

UN1230

· **14.2 UN proper shipping name**

· **ADR/ADN**

1230 METHANOL

· **IMDG, IATA**

METHANOL

· **14.3 Transport hazard class(es)**

· **ADR/ADN**



· **Class**

3 (FT1) Flammable liquids.

· **Label**

3+6.1

· **IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3/6.1

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 8)

· IATA


· Class 3 Flammable liquids.
· Label 3 (6.1)

· 14.4 Packing group
· ADR/ADN, IMDG, IATA II

· 14.5 Environmental hazards:
· Marine pollutant: No

· 14.6 Special precautions for user Warning: Flammable liquids.
· Kemler Number: 336
· EMS Number: F-E,S-D
· Stowage Category B
· Stowage Code SW2 Clear of living quarters.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR/ADN
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml
· Transport category 2
· Tunnel restriction code D/E

· IMDG
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1230 METHANOL, 3 (6.1), II

SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category**
H2 ACUTE TOXIC
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69

· National regulations

- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 28.03.2019

Version number 1

Revision: 28.03.2019

Trade name: Lumea Methanol Chafing Fuel

(Contd. from page 9)

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they 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.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to the central nervous system.

· **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:

DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1