

# Safety Data Sheet

## Lumea Wick Chafing Fuel



### 1 Identification, supplier & emergency information

Product name: **Lumea Wick Chafing Fuel**

Product code: 74298, 74297, 74580

Product description: A clear combustible canned liquid. The fuel, Diethylene Glycol (DEG), is delivered via a wick. The product is ignited and burned to provide heat for food warming applications.

CAS no.: 111-46-6

EINECS no.: 203-872-2

Supplier: **Lumea Ltd** **Lumea Ltd**

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### 2 Hazards identification

**CLP classification:** Acute toxicity (oral), category 4, H302.

CLP labeling:



GHS07

#### Warning

Hazard statements: H302 Harmful if swallowed.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301/312 If swallowed: call a poison centre or doctor/physician if you feel unwell.

**DSD classification:** R22 Harmful if swallowed.

S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

DSD labeling:



Harmful

### 3 Composition

Component:	Diethylene Glycol (DEG)		
Chemical name:	2,2' oxydiethanol	Molecular structure:	C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>
CAS no.:	111-46-6	EINECS no.:	200-659-6
% content:	100%		
Classification:	see section 2.		

### 4 First aid measures

**If swallowed, seek immediate medical attention.**

Inhalation:	Seek fresh air. Drink some sips of water. If coughing persists, seek medical attention.
Ingestion:	Drink sips of warm water or milk. Seek medical attention immediately.
Eye contact:	Flush eye with large amounts of warm water for 15 minutes. If irritation persists, seek medical attention.
Skin contact:	Remove and isolate contaminated clothing. Flush exposed area with warm water for 15 minutes. If irritation persists, seek medical attention.

### 5 Fire-fighting measures

Flash point:	124°C (255°F)	Auto-ignition:	224°C (435°F)
Flammable limits in air (% by vol.):	lower = 2%, upper = 12.3%		
Extinguishing media:	Water spray, CO <sub>2</sub> , foam or dry chemical fire extinguishers can be used.		
Special fire fighting procedures:	Stop source of fuel, shut off ignition sources. Keep exposed containers cool with water spray. Avoid breathing vapours. Self-contained breathing apparatus and protective clothing should be worn.		

### 6 Accidental release measures

Eliminate all ignition sources. Provide adequate ventilation. Aim to stop spill at source. Absorb liquid on absorbent material. Dispose of in accordance with regulations. If necessary, contact emergency services. Prevent liquid from entering drains or waterways.

### 7 Handling & Storage

Handling precautions:	Avoid contact with skin and eyes. Do not ingest. Place can in fuel holder or under chafer before lighting. Burn can in a level upright position. Keep away from combustibles (e.g. paper plates and napkins). Use in a well-ventilated area. Keep away from children.
Storage precautions:	Store in a cool dry place (4–49°C/40–120°F). Provide adequate ventilation in area of use. Store away from sources of heat or open flame. Keep container closed when not in use.

### 8 Exposure controls / personal protection

Exposure controls:	Avoid contact with skin and eyes. Minimise breathing vapour or mist. Ensure adequate ventilation in area of use.
Occupational exposure controls:	Under normal conditions of use, no special protection for skin or eyes is required.

## 9 Physical & chemical properties

Appearance:	Clear, colourless viscous liquid	Odour:	Mild
pH:	Not known	Boiling point:	245°C
Flash point:	124°C	Flammability:	2–12.3% (in air)
Auto-ignition temp.:	224°C	Explosive properties:	None known
Oxidising properties:	None known	Vapour pressure:	<0.01mm Hg @ 20°C
Relative density:	1.1g/cm <sup>3</sup> (water = 1)	Solubility:	Miscible / complete
Water solubility:	Miscible	Partition coefficient:	Not known
Viscosity:	38 mPas at 20°C	Vapour density:	3.66 (air =1)
Evaporation rate:	Not known	Melting point:	-8°C

## 10 Stability & reactivity

Stability:	This product is stable under normal conditions of storage and use.
Conditions to avoid:	Avoid high temperatures. Store away from all sources of ignition.
Materials to avoid:	Avoid contact with oxidisers, acids and alkalis.
Hazardous decomposition products:	Burning may cause carbon dioxide (CO <sub>2</sub> ) and carbon monoxide (CO).

## 11 Toxicological information

CLP classification:	Acute toxicity (oral), category 4, H302. Harmful if swallowed.
DSD classification:	Non-toxic. Potentially lethal via ingestion. Class 3/B.

## 12 Ecological information

Diethylene glycol is highly soluble in water. It is not significantly toxic to fish and aquatic invertebrates, although amphibians and mammals may be more sensitive. The odour and flavour of this material may attract some wildlife and cause them to consume spilled material.

DEG will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

## 13 Disposal considerations

Dispose of empty, partial or full cans in accordance with local authority requirements and in an environmentally safe manner. Do not dump into sewers, any body of water or onto the ground. Recycle packaging where facilities exist.

## 14 Transport information

This product is classified as non-hazardous by DOT regulations, there is no applicable UN transportation number.

## 15 Regulatory information

EU directives:	EC 1272/2008 Classification, labeling & packaging of substances and mixtures (CLP). EC 1907/2006 Registration, evaluation, authorisation & restriction of chemicals (REACH). 67/548/EEC Dangerous substances directive (DSD)
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Statutory instruments: Chemicals (hazardous information and packaging for supply) regulations (CHIP) 2009 SI no. 716/4.  
Control of substances hazardous to health regulations (COSHH).  
Carriage of dangerous goods and use of transportable pressure equipment regulations 2007.  
UK health & safety at work act 1999.

Approved code of practice: Control of substances hazardous to health – approved code of practice and guidance L5 (2005 – HSE books).

Guidance notes: Workplace exposure limits EH40.  
The storage of flammable liquids in containers HSG51 (HSE 1998).

Chemical safety assessment (CSA): A CSA for this product is not available at this time.

## 16 Other Information

Safe use instructions:

- Take care with an open flame product.
- Wash hands to remove any fuel residue.
- Place the can under heating equipment (e.g. a chafing dish) before lighting.
- Ensure the can is securely in position in the equipment before lighting.
- Use a long-handle match or butane lighter to light the can.
- Don't use a lit can to light another can.
- Never position a can on a table-top or on table linen.
- Never handle or carry a lit can.
- Never carry heating equipment (e.g. a chafing dish) with lit cans inside.
- Keep hair, clothing, table linen and all other combustible items away from the flame.
- Don't leave a burning can unattended.
- Never use your hands to extinguish a flame.
- Replace the lid/cap before disposal to prevent any fuel leakage.
- Extinguish the flame by blowing it out.
- Allow wick to cool sufficiently after extinguishing the flame before moving the can.
- Don't touch the wick after the flame has been extinguished.
- Don't tamper with the wick.

Revision details: Version 3.1, 01 December 2012. SDS routinely updated. Version 3.0, 27 March 2012. SDS fully revised to comply with CLP (EC 1272/2008). Previous version: 2.0, 16 March 2009.

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