

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

Printing date 19.03.2019

Version number 3

Revision: 19.03.2019

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

· **1.1 Product identifier**

· **Trade name:** Lumea Wick Chafing Fuel

· **CAS Number:**

111-46-6

· **EC number:**

203-872-2

· **Index number:**

603-140-00-6

· **Registration number** 01-2119457857-21-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** combustible

· **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:

Tel.: +44 (0)845 601 7532

sales@lumea.co.uk

Sales Department:

Tel.: +44 (0)845 601 7532

sales@lumea.co.uk

· **1.4 Emergency telephone number:**

Tel. +44 (0)845 601 7532 oder

Tel. +44 (0)1884 255954

werktags 9:00 bis 17:30

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labelling:**

2,2'-oxybisethanol

- **Hazard statements**

H302 Harmful if swallowed.

- **Precautionary statements**

P264 Wash thoroughly after handling.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**

- **CAS No. Designation:**

111-46-6 2,2'-oxybisethanol

- **Identification number(s):**

- **EC number:** 203-872-2

- **Index number:** 603-140-00-6

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

- **After eye contact**

Rinse opened eye for several minutes under running water.

In case of permanent aches and pains please go and see the doctor.

- **After swallowing**

Do not induce vomiting; instantly call for medical help.

Rinse out mouth and then drink plenty of water.

- **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.

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear breathing protection if necessary.
- **Additional information** Cool endangered containers with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.
- **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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Store in cool, dry place in tightly closed containers.
Don't eat, drink or smoke while working.
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
Store only in the original container.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Keep away from strong oxidizing, alkalis and acidic materials.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** combustible

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit

111-46-6 2,2'-oxybisethanol

WEL (Great Britain) Long-term value: 101 mg/m ³ , 23 ppm

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· DNELs
111-46-6 2,2'-oxybisethanol

Dermal	DNEL (worker, long-term, systemic)	43 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	21 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	44 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	12 mg/m ³ (human)
	DNEL (worker, short-term, local)	60 mg/m ³ (human)

· PNECs
111-46-6 2,2'-oxybisethanol

PNEC aqua (freshwater)	10 mg/L (.)
PNEC aqua (marine water)	1 mg/L (.)
PNEC STP	199.5 mg/L (.)
PNEC soil	1.53 mg/kg soil dw (.)
PNEC sediment (freshwater)	20.9 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	10 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.

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

· Breathing equipment:

Not necessary if room is well-ventilated.

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:

Use gloves of stable material (i.e. nitril rubber).

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

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

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.

Value for the permeation: Level = 6

· **Eye protection:** Safety glasses recommended during refilling.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form: Fluid

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Colour:	Colourless
· Odour:	Nearly odourless
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	-8 °C
Initial boiling point and boiling range:	245 °C
· Flash point:	138 °C
· Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	224 °C
· Decomposition temperature:	Not determined.
· Self-inflammability:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Critical values for explosion:	
Lower:	2 Vol %
Upper:	12.3 Vol %
· Vapour pressure at 25 °C:	0.008 hPa
· Density at 20 °C	1.1 g/cm ³
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
dynamic at 20 °C:	38 mPas
Organic solvents:	100.0 %
Water:	0.0 %
· 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 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:**
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

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· LD/LC50 values that are relevant for classification:
111-46-6 2,2'-oxybisethanol

Oral	LD50	16,500 mg/kg (rat)
Dermal	LD50	13,300 mg/kg (rabbit)

· Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· Repeated dose toxicity
111-46-6 2,2'-oxybisethanol

Oral	NOAEL (90d)	300 mg/kg bw/day (rat)
	NOAEL (28d)	936 mg/kg bw/day (rat) (OECD 407)
Dermal	NOAEL (28d)	3,549 mg/kg bw/day (mouse)

· 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** Based on available data, the classification criteria are not met.
- **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:
111-46-6 2,2'-oxybisethanol

EC50 (static)	> 10,000 mg/l/24h (Daphnia magna) (DIN 38412-11)
LC50 (dynamic)	75,200 mg/l/96h (Pimephales promelas)

- **12.2 Persistence and degradability** biodegradable
- **Other information:** There are no data available about the preparation.
- **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) (Assessment by list): 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.
- **12.6 Other adverse effects** No further relevant information available.

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.

Ensure cans are completely empty before recycling.

Let the boxes burn off completely and dispose of them in the collection of recyclable materials depending on municipal regulations.

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· European waste catalogue

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 07 00	wastes of liquid fuels
13 07 03*	other fuels (including mixtures)
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP 6	Acute Toxicity

· Uncleaned packagings:

- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· 14.1 UN-Number
· ADR, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class Void

· 14.4 Packing group
· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:
· Marine pollutant: No

· 14.6 Special precautions for user

Not applicable.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

Void

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.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations
· Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

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

Substance is not listed.

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- **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.

- **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,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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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

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

Acute Tox. 4: Acute toxicity – Category 4