


1. Identification of the substance/mixture and of the company/undertaking	
Product identifier	
Trade name:	COCOFIRE LIQUID CANDLE
Description:	Decanoic acid, methyl ester
CAS Number:	110-42-9
EINECS Number:	
Registration number:	01-2119487998-07-0003 01-2119487998-07-0000
Synonyms:	Decanoic acid, methyl ester
Relevant identified uses of the substance or mixture and uses advised against	
Application of the substance / the preparation:	Burnmedium for Lamp oil & BBQ Firelighters
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
Lumea Ltd. Hartnoll Business Centre Tiverton, UK EX16 4NG	
Further information obtainable from:	info@lumea.co.uk
Emergency telephone number: +44 (0)845 601 7532 or +44 (0)1884 255954 (weekdays, 9am–5.30pm GMT)	

2 Hazards identification	
Classification of the substance or mixture	
The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.	
Classification according to Directive 67/548/EEC or Directive 1999/45/EC:	Not classified
Classification according to Regulation (EC) No 1272/2008	Toxic to aquatic life with long lasting effect
Environmental hazards:	Hazard to the aquatic environment, Category 2
Physical hazards:	Not classified for physical hazards
Health hazards:	Not classified for health hazards
Specific hazards:	Toxic to aquatic life with long lasting effects
Main symptoms:	None known
Label elements:	
Labelling according to Regulation (EC) No 1272/2008:	
Contains:	Methyl Decanoate
Identification number:	110-42-9
Hazard pictograms:	
Signal word:	None



Hazard statements:	Toxic to aquatic life with long lasting effects
Precautionary statements:	
Prevention:	Avoid release to the environment
Response:	Collect spillage
Storage:	Not available
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal
Supplement label information:	Not applicable.
Other hazards:	Not assigned

3 Composition/information on ingredients	
Chemical characterization:	Substance
CAS No. Description:	110-42-9 Methyl Decanoate
Identification number(s)	01-2119487998-07-0003 01-2119487998-07-0000
Classification:	DSD: - CLP: Aquatic Chronic 2;H411
Additional information:	CLP: Regulation No. 1272/2008 DSD: Directive 67/548/EEC PBT: persistent, bio accumulative and toxic substance vPvB: very persistent and very bio accumulative substance #: This substance has been assigned Community workplace exposure

4 First aid measures	
Description of first aid measures	
General information:	Immediately remove any clothing soiled by the product.
After Inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
Information for doctor:	
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

5 Firefighting measures	
Extinguishing media:	
Suitable extinguishing agents:	CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents:	Water
Special hazards arising from the substance or mixture:	Under certain fire conditions, traces of other toxic gases cannot be excluded.
Advice for firefighters	
Protective equipment:	Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures:	Wear protective clothing. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol.
Environmental precautions:	Do not allow product to reach sewage system or any water course.
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 item 13.
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:	Store in cool, dry place in tightly closed receptacles. Ensure good ventilation /exhaustion at the workplace. Keep away from heat and direct sunlight.
Information about fire - and explosion protection:	Protect from heat. Protect against electrostatic charges. Keep ignition sources away - Do not smoke.
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:	Store away from flammable substances.
Further information about storage conditions:	Keep container tightly sealed. Protect from heat and direct sunlight.
Specific end use(s):	No further relevant information available.

8 Exposure controls/personal protection				
Additional information about design of technical facilities:		No further data; see item 7.		
Control parameters				
Ingredients with limit values that require monitoring at the workplace:		Not required.		
Predicted no effect concentration (PNEC_s)				
Components	Type	Route	Value	Form
	Not applicable	Fresh water	0,0011 mg/l	
		Fresh water sediment	0,0469 mg/kg	dw
		Intermittent release	0,011 mg/l	
		Marine sediments	0,0047 mg/kg	dw
		Marine water	0,00011 mg/l	
Exposure controls				
Personal protective equipment:				
General protective and hygienic measures:		Immediately remove all soiled and contaminated clothing. Keep away from foodstuffs, beverages and feed. Be sure to clean skin thoroughly after work and before breaks. Avoid contact with the eyes and skin.		
Respiratory protection:		In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.		
Protection of hands:		The glove material has to be impermeable and resistant to the product the substance the preparation		
Material of gloves:		Butyl rubber, BR Nitrile rubber, NBR 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.		
Eye protection:		Safety glasses Face protection Goggles recommended during refilling		

9 Physical and chemical properties
Information on basic physical and chemical properties
General Information



Appearance:	
Form:	Liquid
Colour:	According to specification
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not applicable
Changes in conditions	undetermined
Melting point :	ca. - 18 °C
Boiling Point/Boiling range:	ca. 224 °C
Flash point:	ca. 110 °C (Pensky-Martens Closed Cup)
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-ignition:	Not determined
Danger of explosion:	Product does not present an explosive hazard
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined
Relative density at 40 °C:	ca. 0,873
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Insoluble
Segregation coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic at 25 °C:	ca. 2,4 mm ² /s at 20 °C
Kinematic:	Not determined
Other information:	No further relevant information available

10 Stability and reactivity	
Reactivity	
Chemical stability:	Stable at environment temperature.
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions	Reacts with oxidizing agents. Reacts with strong alkali.
Conditions to avoid:	See Section 7 for information on safe handling.
Incompatible materials:	See Section 7 for information on safe handling.
Hazardous decomposition products:	Poisonous gases/vapours Irritant gases/vapours Carbon monoxide and carbon dioxide

11 Toxicological information	
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Information on toxicological effects	
Acute toxicity:	
Fatty acids, palm-kernel oil, Me esters	
LD/LCSO values relevant for classification:	Oral LD50 >2000 mg/kg bw (rat)
Primary irritant effect:	
on the skin:	No irritant effect.
on the eye:	No irritating effect.
Sensitization:	No sensitizing effects known.
Additional toxicological information:	When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
Mutagenicity:	No further relevant information available.
Carcinogenicity	No further relevant information available.
Toxicity for reproduction:	No further relevant information available.

12 Ecological information	
Toxicity	
Aquatic toxicity:	LC50 (96h) >100 mg/L (fish)
Fatty acids, palm-kernel oil, Me esters	
Persistence and degradability:	Easily biodegradable
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 be specially treated adhering to official regulations.



Uncleaned packaging:	
Recommendation:	Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information	
DOT Regulations:	
Hazard Class:	-
Land transport ADR/RID (cross-border)	
ADR/RID class:	-
Maritime transport IMDG:	
IMDG Class:	-
Marine pollutant:	No
Air transport ICAO-[I and IATA-DGR:	
ICAO/IATA Class:	-
UN "Model Regulation":	-
Special precautions for user:	Not applicable.
Transport in bulk according to Annex II of MARPOL 73178 and the IBC Code:	
Name:	Fatty Acid Methyl Esters(m)
Pollution category:	Y
Ship type:	2

15 Regulatory information	
Safety, health and environmental regulations/legislation specific for the substance or mixture	
Labelling according to Regulation (EC) No 1272/2008:	GHS label elements
National regulations:	
Other regulations, limitations and prohibitive regulations	
Country Substance Positive Usting:	Europe (EINECS), China (IECSC), Korea (ECL)
Alternate CAS No.:	
	US (TSCA) Canada (NDSL) New Zealand (NZIOC) Europe (EINECS) Korea (ECL) China (IECSC)
Note:	The substance name and CAS numbers which are used for this product in the stated inventories may deviate from the information listed in Section 3.
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.	
Department issuing MSDS:	php@loutbrogaard.dk
Contact:	php@loutbrogaard.dk
Abbreviations and acronyms:	
ADR:	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAG- TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized 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)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Sources:	Official Journal of the European Union Regulation (EC) No 1907/2006 Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third Revised Edition. Official Journal of the European Union Regulation (EG) No 1272/2008 Official Journal of the European Union Commission Regulation (EU) No 453/2010 IMO (2008). IMDG Code International Maritime Dangerous Goods Code. Incorporating Amendment 34-08. 2008 Edition, Volume 1 & 2. IMO (2007). ISC Code 2007 Edition.
* Data compared to the previous version altered. Rev. 1 new issuance in GHS/CLP format (13 May 2011)	