

According to Regulation (EU) No 830/2015

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	: LUCIFER FLAMGO LIGHTER CUBES
Product code	: 09725018

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application	:	Consumer product (SU21). Fuel (PC13). Solid firelighters
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Uses advised against : Do not use on hot coals or flame.

1.3. Details of the supplier of the safety data sheet

Supplier :	Kemetyl Nederland BV Industrieweg 30 3762 EK Soest, The Netherlands
Telephone :	+31-35-6012890
Fax :	+31-35-6022066
E-mail :	msds@kemetyl.com
Website	www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTOR	S/FIRE BRIGADE/POLICE only:			
NL - Telephone : +31-35-6099310		(During office hours only)		
EMERGENCY TELEPHONE NUMBER (in the UK and Ireland for healthcare professionals only):				
National Poisons Information Service	+44-344 892 0111	(24/7)		

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification	:	Flammable solid, category 1.
(1272/2008/EC)		

2.2. Label elements

Label elements (1272/2008/EC): Hazard pictograms :



Signal word	: Danger	
H- and P-phrases	: H228 EUH066 P101 P102 P210	Flammable solid. Repeated exposure may cause skin dryness or cracking. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P370 + P378 P501 D	In case of fire: Use carbondioxide, foam, dry chemical, water fog to extinguish. Dispose of contents/container to an approved waste disposal plant.



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Additional labelling: none.	
Other information	: According to Regulation (EC) No 1272/2008, the packaging of this product shall carry a tactile warning of danger.
2.3. Other hazards	
Human health hazards	: Repeated exposure may cause skin dryness or cracking. Contains petroleum distillates, may be harmful when ingested.
Physical/chemical hazards	: Highly flammable. Keep away from sources of ignition — No smoking.
Environmental hazards	: Not classified as dangerous according to statutory EC-Directives.
Does not contain PBT or vPvB substances in concentrations higher than 0,1%.	:

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	REACH nr.	OEL
	(w/w) (%)				
Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics Asp. Tox. 1 H304; EUH066	25 - 50		929-018-5	01-2119475608-26	#
Hydrocarbons, C10-14, n-alkanes, isoalkanes, <2% aromatic Asp. Tox. 1 H304; EUH066	10 - < 20		920-274-3	01-2119458951-30	#
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304; EUH066	10 - < 20		926-141-6	01-2119456620-43	#

Reference is made to chapter 16 for full text of each relevant H phrase. Substance(s) with an Occupational Exposure Limit are marked with #. Occupational exposure limit(s) are listed in section 8.

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

First aid measures	
Inhalation	: Consult a doctor if victim feels unwell.
Skin contact	 Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
Eye contact	: Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor if irritation persists.
Ingestion	: Do not induce vomiting. Give nothing to drink. Do rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor immediately.



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4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms	
Inhalation	: May cause headache, dizziness and a feeling of sickness.
Skin contact	: Repeated exposure may cause skin dryness or cracking.
Eye contact	: May cause stinging of eyes and redness.
Ingestion	: May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

4.3. Indication of any immediate medical attention and special treatment needed

Note to	physicians	None known.
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SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media	
Suitable	
Not suitable	

: Carbondioxide (CO2). Foam. Dry chemical. Water fog. : Water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards	:	Will float on water and can be reignited.
Hazardous thermal	:	Carbon monoxide may be evolved if incomplete combustion occurs.
decomposition products		

5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation. equipment for fire-fighters

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Keep away from sources of ignition — No smoking.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.
 Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : For guidance on selection of personal protective equipment see section 8. For guidance on disposal of spilled material see section 13.

SECTION 7 HANDLING AND STORAGE



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7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting equipment. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Occupational exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Hydrocarbons, C10-C13, n-alkanes, <		1200	-	CEFIC-HSPA
2% aromatics				
Hydrocarbons, C10-14, n-alkanes,		1200	-	CEFIC-HSPA
isoalkanes, <2% aromatic				
Hydrocarbons, C11-14, n-alkanes,		1200	-	CEFIC-HSPA
isoalkanes, cyclics, < 2% aromatics				

8.2. Exposure controls

Engineering measures	: Use only in well-ventilated areas. Comply with standard precautionary measures for working with
	chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection	: Use of specific protective industrial clothing is not required under normal conditions of use. In case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots. Suitable material: nitril. Indication of permeation breakthrough time: not permeable.
Respiratory protection	: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure.
Hand protection	: Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. ± 0,5 mm Indication of permeation breakthrough time: not permeable.
Eye protection	: Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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9.1. Information on basic physical and chemical properties

Appearance Colour Odour Odour threshold pH Solubility in water Partition coefficient (n- octanol/water)	:	Solid. White. Characteristic. Not known. Not applicable. Not soluble. Not known.	Solid.
Flash point Flammability (solid, gas) Auto ignition temperature Boiling point/boiling range Melting point/melting range	:	Not applicable. Extremely flammable. > 200 °C > 60 °C Not known.	Solid. Easily ignitable.
Explosive properties Explosion limits (in air)		None known. Not applicable.	Does not contain explosives.
Oxidising properties Decomposition temperature		Not applicable. Not applicable.	Does not contain oxidizing substances.
Viscosity (20°C)	:	Not applicable.	Solid.
Viscosity (40°C)		Not applicable.	Solid.
Vapour pressure (20°C) Vapour density (20°C) Relative density (20°C)	:	132 Pa Not applicable. 0,8 g/ml	(air = 1)
Evaporation rate	:	Very low.	Solid.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity			
Reactivity	: See sub-sections below.		
10.2. Chemical stability			
Stability	: Stable under normal conditions.		
10.3. Possibility of hazardous reactions			
Reactivity	: No other hazardous reactions known.		
10.4. Conditions to avoid			
Conditions to avoid	: Keep away from sources of ignition and sources of heat.		
10.5. Incompatible materials			
Materials to avoid	: Keep away from oxidizing agents.		
10.6. Hazardous decomposition products			

Hazardous decomposition : Not known. products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product name Date of issue



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C C	has been carried out on this product.
Inhalation	
Acute toxicity	 Calculated LC50: > 6,886 mg/l. Ingredients of unknown toxicity: 8 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.
Corrosion/irritation	: May cause irritation to respiratory airways and coughing.
Sensitisation	: Not classified - based on available data, the classification criteria are not met.
Carcinogenicity	: Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
Skin contact	
Acute toxicity	: Calculated LD50: > 3783 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
Corrosion/irritation	Slight irritation possible. Repeated exposure may cause skin dryness or cracking. Prolonged contact may dry out and defat the skin.
Sensitisation	: Not classified - based on available data, the classification criteria are not met.
Mutagenicity	Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.
Eye contact	
Corrosion/irritation	: Slight irritation possible.
Ingestion	
Acute toxicity	 Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met. After ingestion, at vomiting, risk of aspiration in the lungs.
Corrosion/irritation	: May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
Carcinogenicity	: Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
Mutagenicity	: Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Hydrocarbons, C10-C13, n-alkanes, <	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
2% aromatics				
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 476	
	Skin irritation	Non-irritant	OECD 404	Rabbit
	Eye irritation	Non-irritant	OECD 405	Rabbit
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 6100 mg/m3	OECD 403	Rat
	NOAEL (fertility, oral)	> 1000 mg/kg bw/d	OECD 421	Rat
	NOAEL (oral)	> 5000 mg/kg bw/d	OECD 408	Rat
	NOAEL (developmental	> 5220 mg/m3	OECD 414	Rat
	toxicity, inh.)			
	LD50 (dermal)	> 3160 mg/kg bw	OECD 402	Rabbit
	NOAEL (inhalation)	275 mg/m3	OECD 413	Rat
		> 5000 mg/kg bw/d	OECD 474	Mouse
	1	> 2200 mg/m3	OECD 453	Rat
	inh.)			
Hydrocarbons, C10-14, n-alkanes,	LD50 (oral) - estimate	> 5000 mg/kg bw	Read across	Rat
isoalkanes, <2% aromatic				
	NOEL (carcinogenicity)	Not carcinogenic	Read across	Mouse
	- estimate			



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	Mutagenicity - estimate	Negative	Read across	Salmonella typhimurium
	Eye irritation - estimate	Non-irritant	Read across	Rabbit
	Skin sensitisation -	Not sensitizing	Read across	Guinea pig
	estimate			
	Skin irritation - estimate	Non-irritant	Read across	Rabbit
	LC50 (inhalation) -	> 5000 mg/m3		
	estimate	-		
	LC50 (inhalation)	> 4951 mg/m3	OECD 403	Rat
	LD50 (dermal) -	> 5000 mg/kg bw	Read across	Rabbit
	estimate			
Hydrocarbons, C11-14, n-alkanes,	NOAEL (oral) -	> 5500 mg/kg bw/d	Read across	Rat
isoalkanes, cyclics, < 2% aromatics	estimate			
	NOAEL (inhalation) -	> 2200 mg/m3	Read across	Rat
	estimate	-		
	LC50 (inhalation)	> 4950 mg/m3	OECD 403	Rat
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	Genotoxicity - estimate	Not genotoxic	Read across	Human
	NOEL (carcinogenicity)	Not carcinogenic	Read across	
	- estimate	-		
	Respiratory irritation -	Non-irritant		
	estimate			
	Mutagenicity - estimate	Not mutagenic	Read across	
	Skin sensitisation	Not sensitizing	OECD 406	
	Eye irritation	Non-irritant	OECD 405	Rabbit
	Skin irritation	Non-irritant	OECD 404	Rabbit
	NOAEL (fertility) -	Not reprotoxic		
	estimate			
	NOAEL (development)	Not teratogenic		
	- estimate			
	LC50 (inhalation) -	> 5000 mg/m3		
	estimate			
	LD50 (dermal)	> 2000 mg/kg bw	OECD 402	Rat

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 1121 mg/l. Calculated EC50 (waterflea): 1385 mg/l. Contains 8 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility

: Little chance of penetration of spilled product into the ground and surface water.

12.6. Other adverse effects



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Other information

: Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues	: Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
Additional warning	: None.
European waste catalogue	: Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
Local legislation	: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 2623

14.2. UN proper shipping name

Transport name	: FIRELIGHTERS, SOLID
Transport name (IMDG,	: FIRELIGHTERS, SOLID
IATA)	

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

:	4,1
:	F1
:	III
:	4,1
:	
_	
	:

Class	: 4,1
Packaging group	: 111
EmS (fire / spill)	: F - A / S - I
Marine pollutant	: No
IATA (air)	
Class	: 4,1

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code



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Marpol

: Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments.

SECTION 15 REGULATORY INFORMATION

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

Community regulations	:	Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.
Other information	:	This product is in accordance with EN 1860-3.

15.2. Chemical safety assessment

Chemical safety	:	Not available.
assessment		

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) 1907/2006 dated 18 December 2006 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
List of abbreviations and ac	ronyms that could be (but not necessarily are) used in this safety data sheet:
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DNEL	Derived no-effect level
ECETOC TRA	European centre for ecotoxicology and toxicology of chemicals. Targeted risk assessment
EU	European Union
EUSES	European Union System for the Evaluation of Substances
IBC code	Intermediate Bulk Container
LD50 LC50	Lethal Dose/Concentration for 50% of a population
NOAEL	No Observed (Adverse) Effect Level
NOEC	No observed effect concentration
OEL	Occupational exposure limit
PBT	Persistent, Bioaccumulative and Toxic
PC	Chemical product category
PNEC	Predicted no-effect concentration
STP	Sewage Treatment Plant
SU	Sector of Use
SVHC	Substance of very high concern
TWA/STEL	Time-Weighted Average/Short Term Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative
Number format	: "," used as decimal separator.