



Kemetyl

Safety data sheet

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name : KEMETYL FIRELIGHTER CUBES
Product code : 4708, AL47K

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

Application : SU21 Consumer product. PC13 Fuel.

1.3. Details of the supplier of the safety data sheet

Supplier : Kemetyl Polska Sp. z o. o.
Al. Jerozolimskie 146
02-305 Warszawa, Poland
Telephone : +48 22 822 5390
E-mail : msds@kemetyl.com
Website : www.kemetyl.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

PL - Telephone : +48 22 822 5390

(During office hours only)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Human health hazards : Repeated exposure may cause skin dryness or cracking. Contains petroleum distillates, may be harmful when ingested.

Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H228 Flammable solid.
EUH066 Repeated exposure may cause skin dryness or cracking.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:



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Hazard pictograms :



Signal word : Danger

H- and P-phrases : EUH066 Repeated exposure may cause skin dryness or cracking.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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

Other information : 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 (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|--|-------------------------|------------|-----------|--------|------------------|
| Hydrocarbons, C10-14, n-alkanes, isoalkanes, <2% aromatic | 10 - < 20 | | 920-274-3 | | 01-2119458951-30 |
| Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics | 25 - < 50 | ----- | 929-018-5 | | |
| Urea, reaction products with formaldehyde | 5 - < 10 | 68611-64-3 | 271-898-1 | | |
| Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 10 - < 20 | ----- | 926-141-6 | | 01-2119456620-43 |

| Substance name | Hazard Class | H-phrases | Pictograms | |
|--|-------------------|--------------|------------|--|
| Hydrocarbons, C10-14, n-alkanes, isoalkanes, <2% aromatic | Asp. Tox. 1 | H304; EUH066 | GHS08 | |
| Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics | Asp. Tox. 1 | H304 | GHS08 | |
| Urea, reaction products with formaldehyde | Aquatic Chronic 3 | H412 | ----- | |
| Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | Asp. Tox. 1 | H304; EUH066 | GHS08 | |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation : Consult a doctor if victim feels unwell.

Product name : Kemetyl Firelighter Cubes

Date of issue : 2018-07-27

Replaces issue dated : ---

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- 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. 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 if victim feels unwell.

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.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

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

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 : See also section 8.



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SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe vapour. Avoid contact with skin and eyes. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.
Recommended packaging : Keep only in the original container.
Non recommended packaging : Steel (except stainless steel).

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : 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.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m ³) | STEL 15 min (mg/m ³) | Comments | Source |
|--|---------|---------------------------------|----------------------------------|------------|------------|
| Hydrocarbons, C10-14, n-alkanes, isoalkanes, <2% aromatic | | 1200 | - | CEFIC-HSPA | |
| Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics | | 1200 | - | CEFIC-HSPA | |
| Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | 1200 | - | - | CEFIC-HSPA |

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: 6 hours.
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: 6 hours.



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Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|---|------------------------|--|
| Appearance | : Solid. | |
| Colour | : White. | |
| Odour | : Characteristic. | |
| Odour threshold | : Not applicable. | |
| pH | : Not applicable. | Solid. |
| Solubility in water | : Not soluble. | |
| Partition coefficient (n-octanol/water) | : Not known. | Not measured. Not relevant for mixtures. |
| Flash point | : Not relevant. | Solid. |
| Flammability (solid, gas) | : Extremely flammable. | Easily ignitable. |
| Auto ignition temperature | : > 200 °C | |
| Boiling point/boiling range | : > 100 °C | |
| Melting point/melting range | : Not applicable. | |
| Explosive properties | : None known. | Does not contain explosives. |
| Explosion limits (% in air) | : Not applicable. | |
| Oxidising properties | : Not applicable. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not known. | |
| Viscosity (20°C) | : Not applicable. | Solid. |
| Viscosity (40°C) | : Not applicable. | Solid. |
| Vapour pressure (20°C) | : Very low. | Solid. |
| Vapour density (20°C) | : > 1 | (air = 1) |
| Relative density (20°C) | : 0,8 g/ml | |
| Evaporation rate | : Very low. Solid. | |

9.2. Other information

Other information : Not relevant.

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 : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products



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Hazardous decomposition : Not known.
products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 6,856 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 : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. 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: > 4422 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. Not classified - based on available data, the classification criteria are not met.
- 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. Not classified - based on available data, the classification criteria are not met.

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.
- Aspiration : Highly viscous liquid. Not classified - based on available data, the classification criteria are not met. Contains a substance/substances with an aspiration hazard. 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.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|---|------------------------------|-----------------|-------------|-------------|
| Hydrocarbons, C10-14, n-alkanes, isoalkanes, <2% aromatic | LC50 (inhalation) - estimate | > 5000 mg/m3 | | |
| | LC50 (inhalation) | > 4951 mg/m3 | OECD 403 | Rat |
| | Skin irritation - estimate | Non-irritant | Read across | Rabbit |
| | LD50 (dermal) - estimate | > 5000 mg/kg bw | Read across | Rabbit |



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| | | | | |
|--|--------------------------------------|-------------------|-------------|------------------------|
| Hydrocarbons, C10-C13, n-alkanes, < 2% aromatics | LD50 (oral) - estimate | > 5000 mg/kg bw | Read across | Rat |
| | Skin sensitisation - estimate | Not sensitizing | Read across | Guinea pig |
| | Eye irritation - estimate | Non-irritant | Read across | Rabbit |
| | Mutagenicity - estimate | Negative | Read across | Salmonella typhimurium |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | Read across | Mouse |
| | LD50 (oral) | > 5000 mg/kg bw | OECD 401 | Rat |
| | LC50 (inhalation) | > 6100 mg/m3 | OECD 403 | Rat |
| | Eye irritation | Non-irritant | OECD 405 | Rabbit |
| | Skin irritation | Non-irritant | OECD 404 | Rabbit |
| | NOAEL (fertility, oral) | > 1000 mg/kg bw/d | OECD 421 | Rat |
| | NOAEL (oral) | > 5000 mg/kg bw/d | OECD 408 | Rat |
| | NOAEL (developmental toxicity, inh.) | > 5220 mg/m3 | OECD 414 | Rat |
| | LD50 (dermal) | > 3160 mg/kg bw | OECD 402 | Rabbit |
| | NOAEL (inhalation) | 275 mg/m3 | OECD 413 | Rat |
| | Genotoxicity - in vitro | Not genotoxic | OECD 476 | |
| | Mutagenicity | Negative | OECD 471 | Salmonella typhimurium |
| | Genotoxicity - in vivo | > 5000 mg/kg bw/d | OECD 474 | Mouse |
| Skin sensitisation | Not sensitizing | OECD 406 | Guinea pig | |
| NOEL (carcinogenicity, inh.) | > 2200 mg/m3 | OECD 453 | Rat | |
| Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | NOAEL (inhalation) - estimate | > 2200 mg/m3 | Read across | Rat |
| | LC50 (inhalation) - estimate | > 5000 mg/m3 | ----- | ----- |
| | NOAEL (development) - estimate | Not teratogenic | ----- | ----- |
| | NOAEL (fertility) - estimate | Not reprotoxic | ----- | ----- |
| | LD50 (dermal) | > 2000 mg/kg bw | OECD 402 | Rat |
| | Skin irritation | Non-irritant | OECD 404 | Rabbit |
| | Eye irritation | Non-irritant | OECD 405 | Rabbit |
| | Skin sensitisation | Not sensitizing | OECD 406 | ----- |
| | LD50 (oral) | > 5000 mg/kg bw | OECD 401 | Rat |
| | LC50 (inhalation) | > 4950 mg/m3 | OECD 403 | Rat |
| | NOAEL (oral) - estimate | > 5500 mg/kg bw/d | Read across | Rat |
| | Mutagenicity - estimate | Not mutagenic | Read across | |
| | Respiratory irritation - estimate | Non-irritant | | |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | | |

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 768 mg/l. Calculated EC50 (waterflea): 691 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.



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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.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Other adverse effects

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, IATA) : FIRELIGHTERS, SOLID

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

ADR/RID/ADN (road/railway/inland waterways)

Class : 4,1

Classification code : F1

Packaging group : III

Danger label : 4,1

Tunnel restriction : E

code



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Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 4,1
Packaging group : III
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 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 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 (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CLP : Classification, Labeling & Packaging
CMR : Carcinogenic, Mutagenic or toxic for Reproduction
EEC : European Economic Community



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| | |
|-----------|--|
| GHS | : Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | : International Air Transport Association |
| IBC code | : International Bulk Chemical Code |
| IMDG | : International Maritime Dangerous Goods Code |
| LD50/LC50 | : Lethal Dose/Concentration for 50% of a population |
| MAC | : Maximum Allowable Concentration |
| MARPOL | : International Convention for the Prevention of Pollution From Ships |
| NO(A)EL | : No Observed (Adverse) Effect Level |
| OECD | : Organisation for Economic Co-operation and Development |
| PBT | : Persistent, Bioaccumulative and Toxic |
| PC | : Chemical product category |
| PT | : Product type |
| REACH | : Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | : Sewage Treatment Plant |
| SU | : Sector of Use |
| TWA/STEL | : Time-Weighted Average/Short Term Exposure Limit |
| UN | : United Nations |
| VOC | : Volatile Organic Compounds |
| vPvB | : Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Flam. Sol. 1 : On basis of test data.

Full text of hazard classes mentioned in section 3:

Asp. Tox. 1 : Aspiration hazard, category 1.

Aquatic Chronic 3 : Hazardous to the aquatic environment — Chronic category 3.

Full text of H-phrases mentioned in section 3:

H304 : May be fatal if swallowed and enters airways.

H412 : Harmful to aquatic life with long lasting effects.

EUH066 : Repeated exposure may cause skin dryness or cracking.

Number format : "," used as decimal separator.

End of safety data sheet.

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