

**Firelighters (Kerosene)**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

**1.1 Product identifier**

Product Name Firelighters (Kerosene)  
Unique Formula Identifier (UFI) N300-D0C3-H006-24RF

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

Identified Use(s) Used for the ignition of solid fuels.  
Uses Advised Against Not known.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer  
Company Identification Tiger Tim Products Ltd  
Address of Manufacturer Rhosesmor Industrial Estate  
Rhosesmor, Mold  
Flintshire, CH7 6PZ  
United Kingdom  
Telephone +44 (0) 1352 780861  
Fax +44 (0) 1352 781294  
E-mail sales@tigertimproducts.co.uk

Supplier  
Company Identification Flame Group Ltd  
Address of Supplier Productieweg 1a  
3899 AK Zeewolde  
Netherlands  
Telephone +31 (0) 36 521 96 20  
E-mail sales@firelighter.com

**1.4 Emergency telephone number**

Company (United Kingdom) +44 (0) 1352 780861, +44 (0) 7984473602, +44 (0) 7931831452  
Company (Netherlands) +31 (0) 36 521 96 20  
National response centre  
Address NHS Direct  
Emergency Phone No. +44 111

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Flam. Sol. 2 :Flammable solid.  
Skin Irrit. 2 :Causes skin irritation.  
STOT SE 3 :May cause drowsiness or dizziness.  
Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
Firelighters (Kerosene)

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Hazard Pictogram(s)



GHS02

GHS07

GHS09

Signal Word(s)

Warning

Hazard Statement(s)

H228: Flammable solid.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

EUH208: Contains: (Formaldehyde) May produce an allergic reaction.

Precautionary Statement(s)

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.

P271: Use only outdoors or in a well-ventilated area.

P302+P352: IF ON SKIN: Wash with plenty of water.

P501: Dispose of contents in accordance with local, state or national legislation.

**2.3 Other hazards**

None known.

**2.4 Additional Information**

For full text of H/P Statements see section 16.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Kerosine (petroleum)	8008-20-6	232-366-4 01-2119485517-27-XXXX	70-80	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411	GHS02 GHS08 GHS07 GHS09
Hydrochloric acid 25%	7647-01-0	231-595-7 01-2119484862-27-XXXX	≤0.1	Met. Corr. 1 H290 Skin Corr. 1A H314 Eye Dam. 1 H318 STOT SE 3 H335	GHS05 GHS07
Methanol	67-56-1	200-659-6 01-2119433307-44-XXXX	<0.1	Flam. Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 STOT SE 1 H370	GHS02 GHS06 GHS08

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Formaldehyde	50-00-0	200-001-8 01-2119488953-20-XXXX	<0.1	Acute Tox. 3 H301 Acute Tox. 3 H311 Skin Corr. 1B H314 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 3 H331 Muta. 2 H341 Carc. 1B H350	GHS06 GHS05 GHS08 GHS07
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HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
Methanol	67-56-1	STOT SE 1	C>= 10.00 <= 100.00		Acute Tox. 3 (H301) : 100.000 Acute Tox. 3 (H311) : 300.000 Acute Tox. 3 (H331) : 0.500
		STOT SE 2	C>= 3.00 < 10.00		
Formaldehyde	50-00-0	Skin Corr. 1B	C>= 25.00 <= 100.00		Acute Tox. 3 (H301) : 100.000 Acute Tox. 3 (H311) : 300.000 Acute Tox. 3 (H331) : 0.500
		Skin Irrit. 2	C>= 5.00 < 25.00		
		Skin Sens. 1	C>= 0.20 <= 100.00		
		Eye Irrit. 2	C>= 5.00 < 25.00		
		STOT SE 3	C>= 5.00 <= 100.00		

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
- Skin Contact Take off contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
- Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open.
- Ingestion Wash out mouth with water. If symptoms occur obtain medical attention.

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

Causes skin irritation. May cause drowsiness or dizziness.

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

Unlikely to be required but if necessary treat symptomatically.

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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing media                      Use dry chemical, sand, foam or carbon dioxide to extinguish.  
Unsuitable extinguishing media                      Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Flammable solid. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

#### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Eliminate sources of ignition. Do not breathe dust.  
Wear appropriate personal protective equipment, avoid direct contact.

#### 6.2 Environmental precautions

Avoid release to the environment.

#### 6.3 Methods and material for containment and cleaning up

Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable. Collect spillage. Transfer to a container for disposal.

#### 6.4 Reference to other sections

See Also Section 8, 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Avoid contact with skin. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Keep out of reach of children.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.  
Storage temperature                                      Ambient.  
Storage life    Stable under normal conditions.  
Incompatible materials                                      Oxidizing agents.

#### 7.3 Specific end use(s)

Used for the ignition of solid fuels.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Methanol	67-56-1	200	266	250	333	Sk
Formaldehyde	50-00-0	2	2.5	2	2.5	Carc
Hydrogen chloride (gas and aerosol mists)	7647-01-0	1	2	5	8	

Region                      Source  
 United Kingdom        UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark                    Notes  
 Sk                            Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  
 Carc                        Capable of causing cancer and/or heritable genetic damage.

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls    Ensure adequate ventilation.

8.2.2. Personal protection equipment



Eye Protection                      Not normally required.



Skin protection                      Wear impervious gloves (EN374).  
 Recommended: Nitrile rubber, thickness of coating: ≥ 0.38 mm, Breakthrough time: >240 minutes (permeation: level 5)



Respiratory protection              Wear suitable respiratory protection.  
 Recommended: Full-/Half-/quarter-face masks (DIN EN 136/140)



Thermal hazards                      Not applicable.

8.2.3. Environmental Exposure Controls    Avoid release to the environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical state                              Solid.  
 Colour                                        White.  
 Odour                                        Characteristic odour.  
 Melting point/freezing point        -47°C  
 Boiling point or initial boiling point and boiling range                      ≥146 °C @ 101.3 kPa

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Flammability	Flammable solid.
Lower and upper explosion limit	Not applicable.
Flash Point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not applicable.
Solubility	Solubility (Water) : Insoluble. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not applicable.
Density and/or relative density	Density (g/ml): 0.7 @ 20°C
Relative vapour density	Not applicable.
Particle characteristics	Not known.
<b>9.2 Other information</b>	
Flammable solid	Burning rate test: Wetted zone stops the fire for at least 4 minutes. Burning time: < 45 s

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

### 10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition. Keep away from heat and direct sunlight.

### 10.5 Incompatible materials

Oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion	Calculation method : Not classified. Low oral toxicity. Calculated acute toxicity estimate (ATE): 48828.12
Acute toxicity - Skin Contact	Calculation method : Not classified. Low acute toxicity. Calculated acute toxicity estimate (ATE): 193798.45
Acute toxicity - Inhalation	Calculation method : Not classified. Low acute toxicity. Calculated acute toxicity estimate (ATE): 323

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Skin corrosion/irritation	Calculation method : Causes skin irritation. No data.
Serious eye damage/irritation	Calculation method : Not classified. Non-irritant.
Skin sensitization data	Calculation method : Not classified. It is not a skin sensitiser.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified. There is no evidence of mutagenic potential.
Carcinogenicity	Calculation method : Not classified. No evidence of carcinogenicity.
Reproductive toxicity	Calculation method : Not classified. No evidence of reproductive effects.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause drowsiness or dizziness. No data.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.
<b>11.2 Information on other hazards</b>	Not known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

	Toxic to aquatic life with long lasting effects.
Toxicity - Aquatic invertebrates	No data.
Toxicity - Fish	No data.
Toxicity - Algae	No data.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

**12.2 Persistence and degradability**

No information available.  
Kerosine (petroleum): Biodegradable.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

Insoluble in water. The product is predicted to have low mobility in soil.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Endocrine disrupting properties**

None known.

**12.7 Other adverse effects**

Not known.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Dispose of empty containers and wastes safely. Dispose of this material and its container as hazardous waste.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number or ID number**

UN No. 2623

**14.2 UN proper shipping name**

UN proper shipping name FIRELIGHTERS, SOLID

**14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class 4.1  
 ADR Classification Code F1  
 Limited Quantities 5 kg  
 Excepted Quantities E1  
 Emergency Action Code 1Z  
 Mixed Packing Instructions for Packages P002 LP02 R001  
 Special Packing Provisions for Packages PP15  
 Mixed Packing Instructions for Packages MP11  
 ADR Transport Category 4  
 Tunnel Restriction Code E

IMDG

IMDG Class 4.1  
 Limited Quantities 5 kg  
 Excepted Quantities E1  
 Mixed Packing Instructions for Packages P002 LP02 R001  
 Special Packing Provisions for Packages PP15  
 IMDG EMS F-A, S-I  
 Stowage and Handling Category A  
 Segregation SG35

ICAO/IATA

IATA Proper Shipping Name FIRELIGHTERS, SOLID  
 Excepted Quantities E1  
 Passenger and Cargo Aircraft Limited Y443  
 Quantities Packing Instructions  
 Passenger and Cargo Aircraft Limited 10Kg  
 Quantities Max net Qty  
 Passenger and Cargo Aircraft Packing 446  
 Instructions  
 Passenger and Cargo Aircraft Max net 25Kg  
 Qty  
 Cargo Aircraft Packing Instructions 449



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Cargo Aircraft Max net Qty 100Kg  
 Special Provisions A803  
 Emergency Response Guidebook (ERG) 3L  
 Code  
 Labels  
 Labels 4.1



#### 14.4 Packing group

Packing group III

#### 14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

#### 14.6 Special precautions for user

Special precautions for user Not known.

#### 14.7 Maritime transport in bulk according to IMO instruments

No information available

### SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Methanol (67-56-1), Carcinogen: Category 1B (50-00-0), Kerosine (petroleum) (8008-20-6), Hydrochloric acid 25% (7647-01-0)

Community Rolling Action Plan (CoRAP) Methanol (67-56-1), Formaldehyde (50-00-0)

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

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Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

#### National regulations

Other Not known.

#### 15.2 Chemical Safety Assessment

Not applicable.

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**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16

**LEGEND**

Hazard Pictogram(s)



GHS02



GHS07



GHS09

GHS05: GHS: Corrosion

GHS06: GHS: Skull and crossbones

GHS08: GHS: Health hazard

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2  
 Flam. Liq. 3 : Flammable liquid, Category 3  
 Flam. Sol. 2 : Flammable solid, Category 2  
 Self-heat. 2 : Self-heating substance or mixture, Category 2  
 Met. Corr. 1 : Substance or mixture corrosive to metals, Category 1  
 Acute Tox. 3 : Acute toxicity, Category 3  
 Acute Tox. 4 : Acute toxicity, Category 4  
 Asp. Tox. 1 : Aspiration hazard, Category 1  
 Skin Corr. 1A : Skin corrosion/irritation, Category 1A  
 Skin Corr. 1B : Skin corrosion/irritation, Category 1B  
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2  
 Skin Sens. 1 : Skin sensitization, Category 1  
 Eye Dam. 1 : Serious eye damage/irritation, Category 1  
 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3  
 Muta. 2 : Germ cell mutagenicity, Category 2  
 Carc. 1B : Carcinogenicity, Category 1B  
 STOT SE 1 : Specific target organ toxicity — single exposure, Category 1  
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2  
 Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H225: Highly flammable liquid and vapour.  
 H226: Flammable liquid and vapour.  
 H228: Flammable solid.  
 H252: Self-heating in large quantities; may catch fire.  
 H290: May be corrosive to metals.  
 H301: Toxic if swallowed.  
 H302: Harmful if swallowed.  
 H304: May be fatal if swallowed and enters airways.  
 H311: Toxic in contact with skin.  
 H314: Causes severe skin burns and eye damage.  
 H315: Causes skin irritation.

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H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H331: Toxic if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H341: Suspected of causing genetic defects.  
H350: May cause cancer.  
H370: Causes damage to organs.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240: Ground and bond container and receiving equipment.  
P261: Avoid breathing dust.  
P264: Wash hands and exposed skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTRE/doctor if you feel unwell.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P370+P378: In case of fire: Use dry chemical, sand, foam or carbon dioxide to extinguish.  
P391: Collect spillage.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents in accordance with local, state or national legislation.

#### Acronyms

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE : Acute Toxicity Estimate  
CAS : Chemical Abstracts Service  
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
EC : European Community  
IATA : International Air Transport Association  
IBC : Intermediate Bulk Container  
ICAO : International Civil Aviation Organization  
IMDG : International Maritime Dangerous Goods  
LTEL : Long term exposure limit  
PBT : Persistent, Bioaccumulative and Toxic

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REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP)  
data used to compile the SDS

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