



# Material Safety Data Sheet

## Product – Kerosene

### 1) Identification of the substance/preparation and of the company/undertaking

**Identification of Substance/preparation:** This safety data sheet covers: Shelford Energy Standard Grade Kerosene, Regular Burning Oil, & Premium Grade Kerosene, Premium Burning Oil

**Application:** Fuel for domestic burners: low sulphur industrial process fuel. Premium grade is the only fuel that can be used for flue less space heaters.

**Company Identification:** Shelford Petroleum Oil Transport Ltd t/a Shelford Energy 2 Station Road Great Shelford Cambridge CB2 5LT

### 2) Composition/information on ingredients

Name	%Wt	CAS No.	EC No.
Kerosene (petroleum)	95-99.99	8008-20-6	232-366-4
R 10	Flammable		
Xn R 65	Harmful: may cause lung damage if swallowed.		
Xi R 38	Irritating to skin.		
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

Product contains small amounts of additives.

### 3) Hazards identification

Flammable, Harmful if swallowed, Likely to cause skin irritation.

### 4) First aid measures

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention. External cardiac massage may be instituted if the heart has stopped.

**Skin contact:** Wash skin with plenty of soap and water for several minutes. In extreme situations of saturation with this product, first drench with water, then remove clothing as soon as possible and wash skin with soap and water. Seek medical advice if skin becomes red, swollen or painful.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

**Ingestion:** Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.

**Other recommendations:** Aspiration of this product during induced vomiting can result in lung injury, which may be fatal. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

### 5) Fire fighting measures

For major fires call the Fire Service. Ensure an escape path is always available from any fire. There is a danger of flashback if sparks or hot surfaces ignite vapour. Use foam, dry powder or water fog. DO NOT USE water jets. Trained personnel wearing approved breathing apparatus should deal with fires in confined spaces.

**Combustion Products:** Toxic fumes may be evolved on burning or exposure to heat.

### 6) Accidental release measures

Stop product flow if possible. Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapour. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Avoid contact with skin, eyes or clothing. Contain spill if possible. Remove with inert absorbent. Prevent entry into sewers and waterways. If unable to prevent entry into waterways inform the local authorities and call emergency services if warranted.



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### 7) Handling and storage

#### Handling

Use spark-proof tools as the material may be at elevated temperatures and / or pressures. Exercise care when opening bleeders and sampling ports.

Use explosion-proof equipment and maintain adequate ventilation to prevent accumulation of explosive air-gas mixtures and to avoid significant oxygen displacement.

This product may contain volatile hydrocarbons which may accumulate in the container headspace, thereby creating a flammable or explosive atmosphere.

#### Storage

Transport, handle and store in accordance with applicable local regulations, designed for this product. . Ground and bond shipping container, transfer line and receiving container. Keep away from sparks, flame and other sources of ignition. Protect containers against static electricity, lightning and physical damage. Hot work (eg cutting or welding) must not be carried out on or near any container used for storage of this product unless it has been made safe by purging or other suitable means.

### 8) Exposure controls/personal protection

**Exposure limits:** There is no appropriate occupational exposure limit for this material. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

**Protective Clothing:** Wear face visor or goggles in circumstances where eye contact can accidentally occur. If skin contact is likely, wear impervious protective clothing and gloves. Protective clothing should be regularly inspected and maintained: overalls should be dry cleaned, laundered and preferably starched after use.

**Respiratory Protection:** If operations are such that significant exposure to vapour, mist or fume may be anticipated, then suitable approved respiratory equipment should be worn. The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.

### 9) Physical and chemical properties

Appearance	Colourless → Pale Yellow
Odour	Kerosene odour
Flash point, °C	> 38 min (PMMC)
Relative density	0.78 @ 15°C
Viscosity	2.0 mm <sup>2</sup> /s max @ 40 °C
Ignition temperature, °C	190
Flammable limits % lower/upper	0.6 – 6
Boiling point/range, °C	150 – 300
Vapour density (Air = 1)	4.7

### 10) Stability and reactivity

**Conditions to avoid:** Sources of ignition such as naked flames, sparks, hot surfaces.

**Materials to avoid:** Avoid contact with strong oxidising agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, aldehydes and ketones.

### 11) Toxicological information

**Eyes:** Unlikely to cause more than transient stinging or redness if accidental eye contact occurs

**Skin:** Likely to cause skin irritation and defatting.

**Ingestion:** Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. Will injure the lungs if aspiration occurs, e.g. during vomiting.

**Inhalation:** May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.



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### 12) Ecological information

**Mobility:** Spillage in large quantities may penetrate the soil causing groundwater contamination.

**Persistence and degradability:** This product is inherently biodegradable.

**Bio accumulative potential:** There is no evidence to suggest that bioaccumulation will occur.

**Aquatic toxicity:** Toxic to aquatic organisms. May cause long-term effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

German WGK Classification: 2

### 13) Disposal considerations

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or into the soil. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.

### 14) Transport information

ADR/RID: Kerosene, Flammable Liquid, Class 3, Item 31 (c), Hazard Identification No 30

UN: KEROSENE, Flammable liquid, Class 3, Packing Group III, UN number 1223

IATA/ICAO: Kerosene, Flammable liquid, Class 3, Packing Group III

IMO: KEROSENE, Flammable liquid, Class 3.3, Packing Group III

EMERGENCY ACTION CODE: Flammable liquid, 3[Y]

### 15) Regulatory information

EU Category of Danger: Flammable, Harmful, Irritant

EU Labelling: Symbol: St. Andrew's Cross Indication of Danger: FLAMMABLE, HARMFUL,

Contains: Kerosene - unspecified

Risk (R) Phrases: R10 Flammable R38 Irritating to skin R65 Harmful: May cause lung damage if swallowed.

Safety (S) Phrases: S2 Keep out of reach of children S24 Avoid Contact with skin S23 Do not breathe vapour S43 In case of fire use foam or dry powder. Never use water jets S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

S61 Avoid release into the environment. Refer to special instructions/Safety data sheets.

### 16) Other information

Compiled by: Shelford Energy Ltd. 2 Station Road Great Shelford Cambridge CB2 5LT

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date 02/01/2003.

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02/01/2003.