

MATERIAL SAFETY DATA SHEET

KEROSENE

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1. IDENTIFICATION OF SUBSTANCE OR PREPARATION

PRODUCT PREMIUM REGULAR KEROSENE/PARAFFIN/BURNING OIL

APPLICATION Heating Oil, fuel.

COMPANY **CPL Petroleum Limited**
Central House
Otley Road
Harrogate
HG3 1RF

Telephone 01423 568 068

EMERGENCY TELEPHONE DAY: 01423 568 068 FAX: 01423 531 182
NIGHT: 01642 679 461

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION A mixture of kerosene streams derived from crude petroleum.

HAZARDOUS COMPONENTS

Name	%	CAS	EINECS	SYMBOL	RISK PHRASES
KEROSENE – UNSPECIFIED	95-99.9% wt	64742-81-0	265-184-9	Xi, Xn, N	R10,R38,R65,R51,R53

3. HAZARDS IDENTIFICATION

Flammable. Harmful: may cause lung damage if swallowed. Irritating to skin. This product can irritate and defat the skin. Prolonged and/or repeated contact may cause dermatitis. High concentrations of vapours may be irritating to the eyes and respiratory system and act as an anaesthetic. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Xi - Irritant Xn – Harmful N – Dangerous for the Environment

4. FIRST AID MEASURES

EYE CONTACT May cause irritation and redness. Rinse immediately with plenty of water. If irritation persists, obtain medical advice.

SKIN CONTACT Remove contaminated clothing and launder before re-use. Flush with large amounts of water, use soap if available. If irritation occurs and persists, obtain medical advice.

INGESTION If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhoea may occur. DO NOT INDUCE VOMITING. (aspiration of liquid into the lungs can cause severe lung damage and even death). Get prompt medical attention.

INHALATION If inhalation causes irritation or coughing, remove to fresh air. If breathing stops, administer artificial respiration and seek immediate medical attention.

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Large Fire – Foam/Waterfog. Small Fire – Foam/Dry Powder/CO ² /Sand/Earth. Never use water jets.
FIRE AND EXPLOSION HAZARDS	Static electricity may accumulate, allow time for electrical charge to dissipate to avoid spark generation. Incomplete combustion may generate smoke and carbon monoxide.
PROTECTIVE MEASURES	Do not enter confined spaces without proper protective equipment including respirator. Use water spray to cool containers exposed to fire.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Clear people away from area. Do not operate electrical equipment unless flameproof. Extinguish naked lights e.g. cigarettes. IF SAFE, stop product flow. Position fire fighting equipment. Alert emergency services, environment agency if appropriate. Prevent product entering waterways, drains etc. Contain spill using booms, dikes, dams as appropriate. If spillage has occurred in a confined space, ensure adequate ventilation and check that oxygen levels are safe before entry.

7. STORAGE AND HANDLING (IN NORMAL USE)

STORAGE	Store in suitably designed tanks and storage areas away from heat, ignition sources and open flames, in compliance with national and local regulations and codes of practice. Protect containers against static electricity and lightning.
VENTILATION	Ensure adequate ventilation.
HANDLING	DO NOT SMOKE, EAT OR DRINK WHILST HANDLING. Avoid sniffing vapours and/or mist syphoning or misuse as a solvent. Launder contaminated clothing before re-use. Use spark proof tools. Wash hands thoroughly after contact.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS	None established.
ENGINEERING MEASURES	Ensure adequate ventilation. Avoid flames and excessive temperatures.
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY	Use only in well ventilated areas. Do not enter tanks or confined space where vapours may be present unless breathing apparatus is used. No special requirements for normal operations carried out in well ventilated areas.
HAND	Impervious gloves of nitrile rubber, long sleeves where skin contact is anticipated.
EYE	Use goggles if possibility of accidental splashing or exposure to mist or spray.
OTHER	Coveralls where contact is likely.

9. PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE	Clear liquid. Pale Yellow.
ODOUR	Characteristic odour.
VISCOSITY @ 40°C mm ² /S	1 - 2
BOILING POINT (or RANGE)	130 - 300°C
FLASH POINT	38°C min
AUTO – IGNITION TEMP	190 - 250°C
EXPLOSIVE LIMITS	
UPPER LIMIT	6%
LOWER LIMIT	0.6%
DENSITY @ 15°C	Max 820 kg/m ³
SOLUBILITY	Negligible, < 0.1%

10. STABILITY AND REACTIVITY

STABILITY	Stable at ambient temperatures.
CONDITIONS TO AVOID	Avoid exposure to heat and flame.
MATERIALS TO AVOID	Avoid strong oxidising materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Incomplete combustion will generate carbon monoxide, carbon dioxide and other hazardous gases. Thermal decomposition products will vary with conditions.

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11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE

EYES	Exposure to mist or direct splashing may cause irritation.
SKIN	Irritating: Low order of active toxicity.
INGESTION	Unlikely to occur in normal use. Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.
INHALATION	<p>Negligible hazard at ambient/normal handling temperatures. In high concentrations where ventilation is poor vapour or mist may irritate the mucous membrane, cause headache and dizziness, may be anaesthetic and cause other central nervous system effects.</p> <p>Elevated temperatures may form vapour mists or fumes which could irritate the eyes, nose, throat and lungs.</p> <p>Avoid breathing vapours mists or fumes.</p>
CHRONIC EFFECTS	Skin contact over prolonged periods can lead to defatting of the skin and possible dermatitis.

12. ECOLOGICAL INFORMATION

MOBILITY	Spillages may penetrate the soil causing ground water contamination.
PERSISTENCE & DEGRADABILITY	This product is inherently biodegradable.
BIO-ACCUMULATION	If ground spillage occurs on a large scale and enters soil sub-strata, long term contamination may occur, this could affect ground water.
AQUATIC TOXICITY	This product is considered toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
OTHER	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Place used and contaminated materials/packaging in suitable containers. Treat as flammable. Dispose of in accordance with local/national authority regulations and special waste regulations.

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14. TRANSPORT INFORMATION (REGULATIONS)

TRANSPORT CLASSIFICATION	FLAMMABLE LIQUID
U N NUMBER	1223
PROPER SHIPPING NAME	Kerosene
ICAO/IATA/IMDG CLASS	3
PACKING GROUP	III
ADR CLASS	3
TRANSPORT HAZARD SYMBOL	Black flame on red.
HAZARD IDENT. NUMBER	30
EMERGENCY ACTION CODE	3Y
OTHER	

15. REGULATORY INFORMATION (Supply & Labelling)

SUPPLY CLASSIFICATION	Flammable. Harmful Irritant. Dangerous for the Environment.
LABELLING SYMBOLS	Harmful – St Andrews Cross Dangerous for the Environment – Dead tree & fish.
RISK PHRASES	R10 Flammable. R38 Irritating to skin. R51/R53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful may cause long damage if swallowed.
SAFETY PHRASES	S2 Keep out of reach of children. S23 Do not breathe vapour. S24 Avoid contact with skin. S29 Do not empty into drains. S43 In case of fire, use foam/dry/powder/CO ² . Never use water jets. S61 Avoid release to the environment. Refer to special instructions/safety data sheets. S62 If swallowed do not induce vomiting, seek medical advice immediately and show this container or label.

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16. OTHER INFORMATION

Principle use is as a heating oil in domestic boilers and other industrial systems.
DO NOT siphon by mouth. If used as a solvent additional safety precautions may be required.

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The information given in this data sheet is presented as guidance only for the purpose of determining health, safety and environmental measures. No warranty or representation express or implied is made as to the accuracy of completeness of the data and information contained in this data sheet. It is the users responsibility to evaluate this product and its intended use and to ensure compliance with applicable laws and regulations.
