

TOTAL UK LIMITED



MATERIAL SAFETY DATA SHEET

PREMIUM KEROSENE - PARAFFIN
(Premium Burning Oil)

BS 2869: CLASS C1

1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY / UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

This product is a kerosine type fuel. Premium Kerosine is used in free-standing flueless domestic heating appliances. It is not for use in decorative lamps (see Section 16)

Contains: Kerosine

Premium Burning Oil

CAS No. 64742-48-9

EINECS No. 265-150-3

COMPANY IDENTIFICATION:

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2 COMPOSITION / INFORMATION ON INGREDIENTS:

Complex mixtures of hydrotreated distillates consisting of hydrocarbons mainly in the C₉-C₁₆ range, boiling in the range of approximately 170 – 260°C. Premium Kerosine contains 2 ppm Coumarin and 6 ppm Solvent Yellow 124 which are Customs and Excise markers.

Total Premium Kerosine is **not** classified as carcinogenic under the UK "CHIP" regulations

3 HAZARDS IDENTIFICATION

Premium Kerosine is classified as flammable and is classified as harmful due to the aspiration hazard. Prolonged and repeated skin contact can lead to irritation and dermatitis.

4 FIRST AID MEASURES

TYPE OF EXPOSURE

Ingestion

The swallowing of small amounts is unlikely to have adverse effects; larger amounts may cause irritation with diarrhoea and vomiting.

Skin

Unlikely to cause irritation on single contact. Prolonged or repeated contact may cause short-term irritation, de-fatting of the skin and could result in dermatitis.

Eyes

May cause short-term irritation with redness and stinging.

Inhalation

Fumes or vapour may cause irritation to eyes and mucous membranes, and drowsiness leading to loss of consciousness.

FIRST AID MEASURES

Ingestion

Wash mouth out with water and give water to drink. If a large amount has been swallowed get medical advice; **DO NOT INDUCE VOMITING BECAUSE OF THE DANGER OF ASPIRATION.**

Skin

Wash skin as soon as possible with soap and water. Change contaminated clothing immediately and launder before reuse. Get medical advice if irritation persists.

Eyes

Wash out immediately with large amounts of water. If redness and/or irritation continues get medical advice.

Inhalation

If inhalation of vapour causes irritation or drowsiness remove to fresh air. Get medical advice if the symptoms continue.

5 FIRE-FIGHTING MEASURES

Extinguish with Dry Powder, water mists (fogs) or Foam. For small fires use CO₂

Do not use water jets.

Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Treat any spillage as a fire hazard. Spray, vapour or mist can be a potential fire or explosion hazard.

May cause damage to surfaces making them SLIPPERY.

Contain spillage - do not wash spillage down drain. Absorb using absorbent clay, diatomaceous clay or other suitable absorbent.

7 HANDLING AND STORAGE

7.1 Handling

Paraffin is designed to be used in closed systems. Avoid skin contact when refuelling or working on fuel system components. Where exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION. Ensure good ventilation.

7.2 Storage

Store in tanks and containers designed to contain flammable liquids and ensure storage area is not close to heat and ignition sources.

Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight, in well ventilated conditions. Care should be taken to avoid over-stacking.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Where prolonged or repeated exposure is likely PROTECTIVE CLOTHING should be worn including impervious GLOVES and EYE PROTECTION.

Respiratory protection - Unlikely to be required in normal use but ensure good ventilation. It is suggested that exposure is kept within the Occupational Exposure Limits for vapours, established by the Reciprocal Calculation Procedure for mixed exposures to this type of material, in HSE Guidance Note EH 40:

Long term exposure limit - (8 hour TWA reference period) 1000 mg m⁻³

Hand and skin protection - Not essential in normal use but recommended. Where prolonged exposure is likely protective clothing must be worn, including nitrile gloves approved to BS EN 374 with a breakthrough time of >360 minutes.

Eye protection - Eye protection approved to BS EN 166 is recommended at all times

9 PHYSICAL AND CHEMICAL PROPERTIES

Typical properties:

Appearance	Clear and bright, pale yellow
Odour	Characteristic
pH	Not applicable
Boiling Range °C	160 – 280
Flash Point (Abel) °C	43 min.
Flammability Limits % vol	1 - 6
Auto ignition temperature °C	approx. 230
Explosive properties	Not applicable
Oxidising properties	Not applicable
Reid Vapour Pressure at 20 °C, kPa	<0.1
Density at 15°C	0.78 - 0.82
Solubility - water	Very low
- fat	Not available
Partition coefficient - Log Pow	3 - > 6 for components
Viscosity cSt @ 40°C	1 - 2
Vapour density (relative to air)	> 5
Evaporation rate (n butyl acetate = 1)	0.01
Benzene content % m/m	<0.1

10 STABILITY AND REACTIVITY

Conditions to Avoid - heat (classified Flammable)

Materials to Avoid - may react with strong oxidising materials.

Hazardous Decomposition Products - thermal decomposition may lead to the formation of a multiplicity of compounds some of which may be hazardous. With incomplete combustion smoke and hazardous fumes and gases, including carbon monoxide may be formed.

11 TOXICOLOGICAL INFORMATION

Toxicity following a single exposure to high levels of kerosines (oral, dermal, inhalation) is of a very low order. Prolonged and repeated contact with kerosines may cause drying of the skin and possibly dermatitis. Prolonged inhalation of mists may cause inflammation of the lungs.

12 ECOLOGICAL INFORMATION

Persistence and degradation: rapidly broken down by hydroxyl radicals in the troposphere. Readily biodegradable (OECD 301)

Ecotoxicological studies have shown a very low order of toxicity with this type of material.

LC50 (96hr) - Fish >1,000 ppm

EC50 (24hr) - Daphnia >250 ppm

IC50 (72hr) - Algae 20 ppm.

13 DISPOSAL CONSIDERATIONS

Disposal should be carried out as stipulated in any Local Authority Regulations. Under no circumstances should kerosines be discharged into the public drainage system, or marine and inland waterways.

14 TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION

Flammable liquid: Diamond Symbol
UN Number (Substance Identification Number): 1223
HAZCHEM Code: 3/Y

UN: Flammable liquid, Class 3 (III)
UN Packing Group: III IMO Hazard Class: 3.3
ADR/RID Hazard Class: 3. Item 31 (c)
IATA: Flammable liquid Class 3, Packing Group III.

15 REGULATORY INFORMATION**LABELLING**

Symbol: Black St. Andrew's cross on orange background

Classification: Flammable; Harmful

- R10 - Flammable
R65 - Harmful: May cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking
- S2 - Keep out of reach of children
S23 - Do not breathe vapour
S24 - Avoid contact with skin
S43 - In case of fire use foam/dry powder/CO₂/Halon
 Never use water jets.
S61 - Avoid release to the environment. Refer to special instructions/Safety Data Sheet
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

16 OTHER INFORMATION

Lamp Oils: in accordance with the Lamp Oils Directive (97/64/EC), as adopted in the UK as "The Dangerous Substances and Preparations (Safety) (Consolidation) (Amendment) Regulations – SI 1999 No. 2084", dyed Premium Kerosine (Paraffin) must not be used as fuel for decorative lamps.

Further information can be found in Health and Safety Executive publications, a list of which may be made available on request from HSE Books - Tel: 01787 881165.

This data sheet has been prepared in accordance with the requirements of the Data Sheet Directive 91/155/EEC as amended by Directive 2001/58/EC.

LEGAL NOTICE

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Issued: May 2003

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