

## Kerosene Material Safety Data Sheet

Version 1. Effective Date 23.06.2009 according Regulation (EC) No. 1907/2006 (REACH), Annex II - UK

### **Ebony Solutions Ltd**

Wincham Lane, Wincham, Northwich, Cheshire CW9 6DE

T: 01606 301 222 F: 01606 872 666

E: [info@eslfuels.com](mailto:info@eslfuels.com) [www.eslfuels.com](http://www.eslfuels.com)

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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<b>Product name :</b>	Kerosene
<b>Chemical product name :</b>	Preparation
<b>Product type and main use :</b>	Liquid, Fuel
<b>Supplier :</b>	Ebony Solutions Ltd Wincham Lane, Wincham Northwich, Cheshire CW9 6DE
<b>Telephone :</b>	01606 301 222
<b>Fax :</b>	01606 872 666
<b>Emergency telephone number :</b>	+44 (0)160 630 1222
<b>Website:</b>	<a href="http://www.eslfuels.com">www.eslfuels.com</a>

## 2. HAZARDS IDENTIFICATION

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The substance is classified as dangerous according to Directive 1999/45/EC and its amendments.

<b>Classification :</b>	R10 Xn; R65 N; R51/53
<b>Physical/chemical hazards :</b>	Flammable
<b>Health hazard :</b>	Harmful: may cause lung damage if swallowed.
<b>Environmental hazards :</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance/preparation : Mono-constituent substance

Chemical name*	CAS no.	EC Number	%	Classification
Kerosine (petroleum)	8008-20-6	232-366-4	75 -100	Xn; R65 Xi; R38 N; R51/53

See Section 16 for the full text of the R Phrases declared above, if applicable.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

\* Occupational Exposure Limit(s), if available, are listed in Section 8

## 4. FIRST AID MEASURES

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<b>Inhalation :</b>	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Eye Contact :</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
<b>Skin contact:</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. In case of contact with hot product, rinse with plenty of water.
<b>Ingestion :</b>	Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Protection of first-aiders :</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<b>Notes to physician :</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**See section 11 for more detailed information on health effects and symptoms.**

## 5. FIRE-FIGHTING MEASURES

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### Extinguishing Media

**Suitable :** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Not Suitable :** Do not use water jet.

**Hazardous thermal decomposition products :** No specific data.

**Special exposure hazards :** Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Special protective equipment for fire-fighters :** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

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### **Personal Precautions :**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### **Environmental precautions :**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### **Clean-up methods**

#### **Small spill :**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

#### **Large spill :**

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**Note: see section 1 for emergency contact information and section 13 for waste disposal.**

## 7. HANDLING AND STORAGE

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**Handling :**

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage :**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**Recommended packaging materials:**

Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Recommended monitoring procedures :** If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Occupational exposure controls :** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**No exposure limit value known.**

<b>Ingredient name</b>	<b>Occupational exposure limits</b>
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Oil mist	EH40-WEL (United Kingdom (UK), 2002). STEL: 10 mg/m <sup>3</sup> 15 minute(s). TWA: 5 mg/m <sup>3</sup> 8 hour(s).
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**Hygiene measures :** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection :** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Skin and body :** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Hands :** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eyes :**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Environmental exposure controls :**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Personal protective equipment****Respiratory system :**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical state :</b>	Liquid
<b>Colour :</b>	Clear
<b>Odour :</b>	Mild Paraffinic [Slight]
<b>Boiling point :</b>	30 to 300°C (86 to 572°F)
<b>Flash point :</b>	Closed cup: >38°C (>100.4°F) [ASTM D 3828]
<b>Density :</b>	0.775 to 0.82 g/cm <sup>3</sup> [15°C (59°F)]
<b>Viscosity :</b>	Kinematic (40°C (104°F)): 0.01 to 0.02 cm <sup>2</sup> /s (1 to 2 cSt)
<b>Vapour density :</b>	>1 [Air = 1]
<b>Auto-ignition temperature :</b>	250°C (482°F)

## 10. STABILITY AND REACTIVITY

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<b>Stability :</b>	The product is stable.
<b>Possibility of hazardous reactions :</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid :</b>	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid release to the environment. Refer to special instructions/safety data sheet. Do not swallow.
<b>Materials to avoid :</b>	Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous decomposition products :</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

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### Potential acute health effects

<b>Inhalation :</b>	No known significant effects or critical hazards.
<b>Ingestion :</b>	Aspiration hazard if swallowed. Can enter lungs and cause damage.
<b>Skin contact :</b>	May cause skin irritation.
<b>Eye contact :</b>	May cause eye irritation.
<b>Sensitization and irritation :</b>	Repeated exposure may cause skin dryness or cracking. May cause skin irritation. There is no indication that the product is a sensitiser.

### Toxicokinetics

<b>Absorption :</b>	Not available.
<b>Distribution :</b>	Contains material which may cause damage to the following organs: upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
<b>Metabolism :</b>	Not available.
<b>Elimination :</b>	Not available.

### Acute toxicity

<b>Conclusion/Summary :</b>	Not available.
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<b>Chemical name*</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>	<b>Exposure</b>
Kerosine (petroleum)	LD Dermal	Rabbit	>2 gm/kg	-
	LD Oral	Rat	>5 gm/kg	-
	LD50	Rat	800 mg/kg	-
	Intratracheal			
	LD50 Oral	Rat	15 gm/kg	-
	LDLo	Rat	10700 mg/kg	-
	Intraperitoneal			
LDLo Unreported	Rat		2 mg/kg	-

**Potential chronic health effects :** Not available.

**Chronic toxicity :** Not available.

**Irritation/Corrosion :** Not available.

**Carcinogenicity :** Not available.

**Mutagenicity :** Not available.

**Teratogenicity :** Not available.

#### **Reproductive toxicity**

**Conclusion/Summary :** Not available.

**Chronic effects :** No known significant effects or critical hazards.

**Carcinogenicity :** No known significant effects or critical hazards.

**Mutagenicity :** No known significant effects or critical hazards.

**Teratogenicity :** No known significant effects or critical hazards.

**Developmental effects :** No known significant effects or critical hazards.

**Fertility effects :** No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

**Inhalation :** No specific data.

**Ingestion :** Adverse symptoms may include the following nausea or vomiting

**Skin :** No specific data.

**Eyes :** No specific data.

## 12. ECOLOGICAL INFORMATION

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<b>Environmental effects :</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Aquatic ecotoxicity :</b>	Not available.
<b>Biodegradability :</b>	Not available.
<b>Other adverse effects :</b>	No known significant effects or critical hazards.
<b>PBT :</b>	No. P: Not available. B: Not available. T: No.
<b>vPvB :</b>	Not available.

## 13. DISPOSAL CONSIDERATIONS

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<b>Methods of disposal :</b>	The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
<b>Hazardous waste :</b>	The classification of the product may meet the criteria for a hazardous waste.

## 14. TRANSPORT INFORMATION

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### International transport regulations

Regulatory Info	UN No.	Shipping name	Class	PG*	Label
ADR/RID Class	1223	KEROSENE	3	III	Flammable Liquid
ADNR Class	1223	KEROSENE	3	III	Flammable Liquid
IATA Class	1223	KEROSENE	3	III	Flammable Liquid
IMDG Class	1223	KEROSENE	3	III	Flammable Liquid

**PG\* : Packing group**

### Additional Information

**ADR/RID Class :**

Hazard identification number 30  
Limited quantity LQ7  
CEFIC Tremcard 30S1223

**IMDG Class :**

Emergency schedules (EmS) F-E, S-E

**IATA Class :**

Passenger and Cargo Aircraft: Quantity limitation: 60 L  
Packaging instructions: 309  
Cargo Aircraft Only  
Quantity limitation: 220 L, Packaging instructions:310

Limited Quantities -Passenger Aircraft, Quantity limitation: 10 L  
Packaging instructions: Y30

## 15. REGULATORY INFORMATION

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<b>Chemical Safety Assessment :</b>	This product contains substances for which Chemical Safety Assessments are still required.
<b>EU regulations :</b>	Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use. Containers to be fitted with child-resistant fastenings. Tactile warning of danger applicable.
<b>International regulations :</b>	Not listed on Chemical Weapons Convention List Schedule I Chemicals. Not listed on Chemical Weapons Convention List Schedule II Chemicals. Not listed on Chemical Weapons Convention List Schedule III Chemicals.
<b>Hazard symbol or symbols :</b>	Harmful, Dangerous for the environment
<b>Risk phrases :</b>	R10- Flammable. R65- Harmful: may cause lung damage if swallowed. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>Safety Phrases :</b>	S2- Keep out of the reach of children. S29- Do not empty into drains. S46- If swallowed, seek medical advice immediately and show this container or label. S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
<b>Product use :</b>	Consumer applications.
<b>Europe inventory :</b>	All components are listed or exempted.
<b>Black List Chemicals :</b>	Not listed.
<b>Priority List Chemicals :</b>	Not listed.
<b>Integrated pollution prevention/control list (IPPC) - Air not listed.</b>	
<b>Integrated pollution prevention and control list (IPPC) - Waste not listed.</b>	
<b>Prior Informed Consent. List of chemicals subject to the international PIC procedure (Part I, II, III not listed).</b>	

## 16. OTHER INFORMATION

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### Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK):

R10- Flammable.

R65- Harmful: may cause lung damage if swallowed.

R38- Irritating to skin.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK):

Xn - Harmful

Xi - Irritant

N - Dangerous for the environment.

### Restrictions on use :

None identified.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.