

## Safety Data Sheet

**Product name :**

**KEROSENE (UK SPEC)**

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SDS n° :54194-44

Version :2.00

Version of :2007-08-07

This sheet supersedes the one dated :2005-12-15

### PRODUCT LABELS

**LABELLING (standard or EU):**

Concerned

EC No. 265-184-9 - Kerosine (petroleum), hydrodesulphurised

EC No. 294-799-5 - Kerosene (petroleum) sweetened

**Symbol(s) :**



**Symbol(s) :**

Xn Harmful N Dangerous for the environment.

**Contains :**

Kerosine (petrol) hydrodesulfurized

Kerosene (petroleum) sweetened

**R-phrases :**

R-10 Flammable.

R-38 Irritating to skin.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R-65 Harmful: may cause lung damage if swallowed.

**S-phrases :**

S-2 Keep out of reach of children.

S-23 Do not breathe fumes/vapour/aerosol mist.

S-24 Avoid contact with skin.

S-43 In case of fire, use carbon dioxide (CO2), foam or powder extinguisher. Do not use water.

S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

**TRANSPORT LABELLING:**

Applicable (see section 14)

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

**Name of the product :**

KEROSENE (UK SPEC)

**Product application :**

Organic solvent

Process Oil

**Supplier :**

TOTAL UK LIMITED

40 Clarendon Road

Watford, Hertfordshire. WD17 1TQ

UNITED KINGDOM

Tel: 01923 694000

Fax: 01923 694400

rm.gb-msds@total.co.uk

**Emergency telephones :**

UK - 01923 694000

**Poisons Advice Centre :**

NHS Direct: 0845 46 47 / Textphone: 0845 606 46 47

**Burns Units :**

NHS Direct: 0845 46 47 / Textphone: 0845 606 46 47

**See local details at end of sheet :**



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Manufacturer :

TOTAL UK LIMITED  
40 Clarendon Road  
Watford, Hertfordshire. WD17 1TQ  
UNITED KINGDOM  
Tel: 01923 694000  
Fax: 01923 694400  
rm.gb-msds@total.co.uk

### 2. HAZARDS IDENTIFICATION

Health effects :

If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).  
Irritating to skin.

Environmental impact :

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Physico-chemical hazards :

Flammable.

Product classification :

Flammable.  
Harmful: may cause lung damage if swallowed.  
Irritant: Xi.  
Dangerous for the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### SUBSTANCE

Chemical nature :

Kerosene (petroleum). A complex combination of hydrocarbons obtained either by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities, or obtained from a petroleum stock by treating with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists of hydrocarbons having carbon chain lengths predominantly in the range C9-C16 and boiling in the range of approximately 130-290°C.

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Kerosine (petrol) hydrodesulfurized		64742-81-0	100 %	Xn ,N	R-10, 65, 38, 51/53
Kerosene (petroleum) sweetened		91770-15-9	100 %	Xn ,N	R-10, 65, 38, 51/53

See section 16 for explanations of R-phrases :

Composition comments :

The CAS number of this product may vary depending on the origin of the refinery.

### 4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Inhalation :

This risk exists only if the product is sprayed or heated to a high temperature.  
Transport the person out of the contaminated zone, keep warm and allow to rest.  
Irritation of the respiratory system; narcosis.

Ingestion :

Consult a doctor. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Allow the person to rest.  
Nausea, vomiting, abdominal pains.

Skin contact :

Immediately remove all soiled or stained clothing.  
Wash immediately and abundantly with soap and water.  
Skin irritation.

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Eye contact :	Wash immediately in copious amounts of water, keeping eyelids apart for at least 15 minutes and consult a specialist. Burning feeling and temporary redness.
Aspiration :	If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

### 5. FIRE FIGHTING MEASURES

Flash point:  
see heading 9 - "Physical and chemical properties"  
> = 38°C according to standard NF M 07-011

Extinguishing media :	- suitable: Foam, CO2, powder, possibly water spray (preferably water containing a wetting agent). - not recommended: Solid water streams are prohibited as they could help to spread the flames.
Specific fire-fighting methods :	Cool down any tanks and surfaces exposed to fire by spraying abundantly with water. Isolate the source of the combustible product; allow to burn out under supervision or use appropriate fire extinguishers, as applicable.
Specific hazards :	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled. Special care must be taken to avoid the risk of explosion. When the temperature is close to the flash point, the vapour pressure is so high that it may create an explosive atmosphere above the stored product.
Protective measures for firefighters :	Use water curtains to protect the personnel. Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

### 6. ACCIDENTAL RELEASE MEASURES

Personal protection :	As applicable in view of the risk of exposure, wear hydrocarbon-proof protective clothing, gloves, goggles, boots, and an insulated breathing apparatus (if vapour inhalation is a risk) - see also section 8.
After spillage / leakage :	Do not allow to penetrate into sewers, rivers and ground water. In case of spillage, contact the competent authorities if the situation cannot be brought under control rapidly and efficiently. Surfaces on which the product has been spilled may become slippery.
Spill cleanup methods :	- Recovery: Use mechanical means such as pumps, skimmers and absorbent materials. Never use dispersing agents. Contain and collect the spilled product with sand or any other inert absorbent material. Preserve the waste in closed and sealed recipients. - Elimination: Hand over contaminated materials to an approved collector - see also section 13.
Prevention of secondary risks :	Remove all sources of ignition. Cut off the electric power supply if this operation causes no sparks in the area containing vapours from the product.

### 7. HANDLING AND STORAGE

HANDLING :

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Prevention of user exposure :	Prevent the formation of vapours, mist and aerosols. Handle in well-ventilated premises. Keep the product away from food and beverages. Operations involving the inspection, cleaning and maintenance of storage containers require the application of strict procedures and must be entrusted to qualified specialist personnel only. <b>DO NOT SMOKE.</b> <b>AVOID INHALING VAPOURS.</b> <b>AVOID CONTACT WITH THE SKIN AND MUCOUS MEMBRANES.</b> Wear safety boots and fully covering protective clothing <b>GENERATING NO STATIC ELECTRICITY.</b>
Prevention of fire and explosion :	Use explosion-proof material. Arrange machinery and equipment so as to prevent the sheet of burning product from spreading (retention pits and basins, syphons in the water drainage system). Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not use compressed oxygen or air when transferring or pouring the products. <b>OPERATE ONLY ON COLD AND DEGASSED RESERVOIRS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION).</b> Empty containers may contain flammable or explosive vapours.
Precautions :	Loading and unloading must be carried out at ambient temperature. To prevent risks related to static electricity build-up, ensure that the machinery, equipment and tanks are properly earthed, prohibit splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing. Remove any soiled or splashed clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Avoid breathing in vapours, fumes or mists. Do not eat or drink or smoke during use. Avoid contact with strong oxidising agents. Use only hydrocarbon-resistant containers, joints, pipes etc...
STORAGE :	
Technical measures :	Use anti-explosive materials conforming with the applicable regulations.
Storage precautions :	- Suitable: Store packaged product (drums, samples, cans...) in well-ventilated areas. Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition. Installations should be designed to avoid ground and water pollution. Electric installations must comply with the applicable regulations. Arrange the machinery and equipment so as to prevent fire from spreading (retention pits and basins, syphons in the drainage system). Follow regulations applicable for hazard-rated facilities and local airport regulations. - To be avoided: Do not store exposed to the elements.
Incompatible products :	Dangerous reaction when in contact with strong oxidizers (herbicides etc...).
Packaging materials :	Use only hydrocarbon-resistant containers, joints, pipes, etc.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures :	Use this product in a well-ventilated atmosphere with explosion-proof equipment. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Respiratory protection :	When working in confined spaces (tanks, reservoirs ...), ensure that there is a supply of air suitable for breathing and wear or use the recommended equipment.

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Hand protection :	Impermeable hydrocarbon-proof gloves. Recommended materials : PVA, Nitrile, Fluoro polymer.
Eye protection :	Goggles, in case of risk of splashing.
Skin and body (other than the hands) protection :	Face mask, boots, hydrocarbon-proof clothing, safety boots, as applicable.
Hygienic work practices :	Avoid contact with the skin. If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Liquid
Colour :	Colourless to light yellow.
Odour :	Characteristic.
Density/specific gravity :	0.80 kg/m <sup>3</sup> Temperature (°C) 15
Flash point :	>= 38 °C
Température d'auto-inflammation :	> 240 °C (ASTM E 659)
Comments on autoignition temperature :	This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...).
Flammability limit - lower(%) :	1
Flammability limit - upper(%) :	6
Comments on explosivity :	Explosive mixtures may form in contact with air.
Temperatures at phase change :	Distillation range: 140 - 300 ° C
Vapour density :	> 5 (Air=1)
Vapour pressure :	< 0.1 kPa Temperature (°C) 20
Solubility :	- in water : Practically immiscible Insoluble - in organic solvents : Soluble in many common solvents.
Viscosity :	1.5 mm <sup>2</sup> /s Temperature (°C) 40
Evaporation rate :	0.01 Référence BuAc=1
Further information :	- Benzene content: < 0.1%

### 10. STABILITY AND REACTIVITY

Stability :	The product is stable at normal storage, handling and use temperatures.
Conditions to avoid :	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity
Materials to avoid :	Strong oxidising agents.

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Hazardous decomp. products :	Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.
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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect :

Inhalation, comments:	The vapours inhaled or spray may be irritating for the respiratory tract and for mucous membranes. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system, which may be light headache, dizziness, somnolence or serious fainting, in which case first aid is required rapidly.
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Skin contact, comments:	Frequent and prolonged contact may cause skin irritation
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Eye contact, comments:	Not classified as irritating, but may cause a burning feeling and temporary reddening.
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Ingestion, comments:	Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours min).
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#### CHRONIC TOXICITY OR LONG-TERM TOXICITY :

Inhalation :	Vapour and spray may be irritating for the respiratory tract and for mucous membranes
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Sensitization :	Not classified as allergenic.
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### 12. ECOLOGICAL INFORMATION

Comments about ecotoxicity :	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (CONCAWE recommendation).
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Mobility :	- Air: The product evaporates in the air and disperses to a degree, depending on local conditions - Soil: The product may infiltrate the ground. - Water: The product spreads on the surface of the water. A small amount may dissolve.
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Bioaccumulation :	The potential for bioaccumulation of the product in the environment is very low.
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Persistence and degradability :	This product is regarded as being inherently biodegradable.
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### 13. DISPOSAL CONSIDERATIONS

Waste disposal :	The recommended method is recycling or incineration at an approved installation.
Disposal of contaminated packaging :	Empty packagings may contain flammable or explosive vapours. Disposal via an authorised waste contractor.

### 14. TRANSPORT INFORMATION

UN Number :	1223
Proper shipping name (national) :	KEROSENE
Proper shipping name (international) :	Kerosene
Label for conveyance :	

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Road (ADR) / Rail (RID) :

Class : 3

Code de classification : F1

Hazard Label(s) : 3

Hazard identification number : 30 Flammable liquid (flash point between 23°C and 61°C, inclusive) or flammable liquid or solid in the molten state with a flash point above 61°C, heated to a temperature equal to or above its flash point, or self heating liquid.

Packing Group : III

Transport by barge (ADNR) :

Class : 3

Code de classification : F1

Hazard Label(s) : 3

Packing Group : III

Marine (IMO-IMDG) :

Class : 3

Hazard Label(s) : 3

Safety card : F-E, S-E

Packing Group : III

Air (ICAO/IATA) :

Class : 3

Hazard Label(s) : 3

Packing Group : III

Special provisions : none

HAZCHEM code : 3/Y

### 15. REGULATORY INFORMATION

EC No : 265-184-9 - Kerosene (petroleum), hydrodesulphurised

EC No : 294-799-5 - Kerosene (petroleum) sweetened

Symbol(s) :



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Symbol(s) :	Xn Harmful N Dangerous for the environment.
Contains :	Kerosine (petrol) hydrodesulfurized Kerosene (petroleum) sweetened
Risk phrases :	R-10 Flammable. R-38 Irritating to skin. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-65 Harmful: may cause lung damage if swallowed.
Safety phrases :	S-2 Keep out of reach of children. S-23 Do not breathe fumes/vapour/aerosol mist. S-24 Avoid contact with skin. S-43 In case of fire, use carbon dioxide (CO <sub>2</sub> ), foam or powder extinguisher. Do not use water. S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets. S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.
EU directives :	D. 67/548/EC modified by D. 94/69/EC (21th ATP)

### 16. OTHER INFORMATION

HSE Infoline: 08701 545500 / Minicom: 02920 808537

This sheet is in compliance with the standards defined by the directives 91/155/CEE, 93/112/CEE, 2001/58/CE and the article 14 of the directive 1999/45/EC.

Explanations of R-phrases in section 2 :	R-10 Flammable. R-65 Harmful: may cause lung damage if swallowed. R-38 Irritating to skin. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Revision date:	2007-08-07
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Supersedes the data sheet of:	2005-12-15
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\* Information revised since the previous version of the SDS :

Safety Data Sheet status :	Approved.
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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.