

# MATERIAL SAFETY DATA SHEET

Print Date : 27.01.2006

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ENGEN LAUREL PARAFFIN

Chemical name : Kerosene Synonyms : Paraffin

Product use : General purpose fuel

UN number : 1223

Supplier : Engen Petroleum Limited (Tel: 021-403 4911, a/h: 021-403 4099)

Health Emergency Telephone : 021-658 5111 (Red Cross Poison Service)

Transport Emergency Telephone : 011-975 1278/83 (Hazchemwise)

Customer Service Center : 0860 036 436 (Sales and Technical Information)
MSDS Internet website : www.engen.co.za/content/products/default2.htm

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight%	Symbol Codes	R-Phrase Numbers
Kerosene	8008-20-6	> 98.00	Xn, N	R10, R38, R67, R65, R51/53
Ethyl Benzene	100-41-4	< 1.00	Xn	R20, R45
Naphthalene	91-20-3	< 1.00		R45

See Section 15 for European Label Information.

See Section 8 for Exposure Limits (if applicable).

### 3. HAZARDS IDENTIFICATION

Emergency response data : Colourless Liquid. Flammable. Product can accumulate a static charge

and release vapours which may cause a fire or explosion. DOT ERG No. :

128

### **Potential health effects**

Inhalation : Respiratory irritation, dizziness, nausea and loss of consciousness.

Skin : Prolonged repeated skin contact with low viscosity materials may defat

the skin resulting in possible irritation and dermatitis.

Eye : Practically non-irritating.

Ingestion : Practically non-toxic, but when swallowed can cause lung damage.

Potential environmental : Toxic to fish, aquatic organisms and wildlife. Do not discharge into lakes,

effects streams, ponds and ground water supply.

See Section 11 for further health effects/toxicological data.

### 4. FIRST AID MEASURES

Inhalation : Remove from further exposure. If respiratory irritation, dizziness,

nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use

mouth-to-mouth resuscitation.

Skin contact : Remove contaminated clothing. Dry wipe exposed skin and cleanse with

hand cleaner, soap and water. Launder contaminated clothing before

reuse. (See Section 16 - Injection Injury)

Eye contact Flush thoroughly with water. If irritation occurs call a doctor.

Ingestion Seek immediate medical attention. Do not induce vomiting.

Note to doctors Material if aspirated into the lungs may cause chemical pneumonitis.

Skin contact may aggravate an existing dermatitis. Treat appropriately.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media Carbon dioxide, foam, dry chemical and water fog.

Special fire fighting

procedure

Water spray should only be used to keep fire-exposed containers cool, flush spills away from exposures, disperse vapours and protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply.

Special protective

equipment for firefighters

For fires in enclosed areas, fire fighters must use Self-Contained

Breathing Apparatus.

Unusual fire and explosive

hazards

Flammable.

Products of decomposition Carbon monoxide.

Flash Point > 46 °C (ASTM D-56)

:

Upper Explosion Limit 5.0 %(V) 0.7 %(V) Lower Eplosion Limit

NFPA Hazard Id Health: 0; Flammability: 2; Reactivity: 0

### 6. ACCIDENTAL RELEASE MEASURES

Procedure if material is

released or spilled

Report spills/releases as required to appropriate authorities.

Methods for cleaning up Absorb on fire retardant treated sawdust, diatomaceous earth, etc.

Shovel up for later approved disposal.

LARGE SPILLS: Contain material and pump back to holding tank for disposal or recycling in accordance with product characteristics and

applicable regulations.

Personal precautions See Section 8.

Environmental precautions Prevent spills from entering municipal sewers or drains and contact with

### 7. HANDLING AND STORAGE

Harmful in contact with or if absorbed through the skin. Avoid inhalation Safe handling advice

of vapours or mists. Use in well ventilated area away from all ignition

sources.

Storage information Store in a cool area. Small containers of approved design, properly

sealed and labeled, should be stored in well ventilated surroundings and

kept out of reach of children.

Storage and handling

procedures

To minimize the risk of fire or explosion from static accumulation and

discharges, effectively bond and/or ground product storage and transfer systems. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Refer to national or local regulations covering safety at petroleum handling and storage areas for

this product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (OELs)

Components	CAS-No.	Source	TWA	V	/alue	Notations
Kerosene	8008-20-6	ACGIH	LTEL	200 mg/m3	50 ppm	Skin; A3
Ethyl Benzene	100-41-4	ACGIH OSHA	LTEL STEL LTEL STEL	434 mg/m3 543 mg/m3 435 mg/m3 545 mg/m3	100 ppm 125 ppm 100 ppm 125 ppm	A3; BEI
Naphthalene	91-20-3	ACGIH OSHA	LTEL STEL LTEL STEL	52 mg/m3 79 mg/m3 50 mg/m3 75 mg/m3	10 ppm 15 ppm 10 ppm 15 ppm	Skin; A4

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Note: Limits Shown for guidance only. Follow applicable regulations.

### Personal Protection Equipment (PPE)

Ventilation : Use in well ventilated area. Explosive-proof ventilation equipment with

local exhaust is desirable.

Respiratory protection : Approved respiratory equipment must be used when airborne

concentrations are unknown or exceed the recommended exposure limit. Self-Contained Breathing Apparatus may be required for use in confined

or enclosed spaces.

Eye protection : If splash with liquid is possible, chemical type goggles should be worn.

Skin and body protection : Impervious gloves must be worn. If body contact is likely, oil impervious

clothing must be worn. Good personal hygiene practices should always

be followed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.
Colour : Colourless
Odour : Mild
Boiling point/range : > 93 °C

Flash Point : > 46 °C (ASTM D-56)

Vapour pressure : < 1.0 hPa

Density : 0.79 g/cm3 @ (ASTM D-4052) Viscosity, kinematic : 1.5 mm2/s @ 40 °C (ASTM D-445)

### 10. STABILITY AND REACTIVITY

Stability : Stable.

Conditions to avoid : Heat, sparks, flame and build up of static electricity.

Materials to avoid : Strong oxidizers

Hazardous decomposition

products

Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : (Rats): Practically non-toxic (LD50: Greater than 2000mg/kg). Based

on testing of similar products and/or components.

Acute inhalation toxicity : (Rats): Practically non-toxic (LC50: greater than 5mg/l). Based on

testing of similar products and/or the components.

Acute dermal toxicity : (Rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg).

Based on testing of similar products and/or the components.

Skin irritation : (Rabbits): Irritant. (Primary Irritation Index: greater than 3 but less

than 6). Based on testing of similar products and/or the components.

Eye irritation : (Rabbits): Practically non-irritating. (Draize score: greater than 6 but

15 or less). Based on testing of similar products and/or the components.

Repeated dose toxicity : Certain straight-run middle distillates have been found to produce skin

tumors in laboratory mouse skin-painting tests, but these have usually been associated with a high level of skin irritation. Laboratory tests have indicated that the irritation can produce tumours. Therefore, if the precautions outlined in this MSDS are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should

pose no carcinogenic hazard to humans.

Other toxicological

information

This product contains ethylbenzene. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as possibly carcinogenic to humans (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate

evidence for cancer in exposed humans.

### 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability : The majority of the components in this product would be expected to be

inherently biodegradable. The constituents of kerosene which are volatilized will photodegrade in the atmosphere. The less volatile, more water-soluble components which are aromatic hydrocarbons will also

undergo aqueous photodegradation.

Physico-chemical

removability

Not established.

Bioaccumulation : Not established.

**Ecotoxicity effects** 

Toxicity to fish : (Rainbow trout) LC50: 18 - 25 mg/l at 96 hours.

Toxicity to aquatic

organisms

(Daphnia) Immobilisation (50%): 1.4 - 21 mg/l at 48 hours. (Algae) Growth Inhibition (50%): 4 - 15 mg/l at 72 hours.

### Further information on ecology

Remarks : This environmental assessment is based on test data for this product (or

estimated data).

### 13. DISPOSAL CONSIDERATIONS

Waste disposal : Product is suitable for burning for fuel value compliance with applicable

laws and regulations.

Contaminated packaging : Empty containers retain residue (liquid and/or vapour) and can be

dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally

safe manner and in accordance with governmental regulations.

Other regulations : Disposal of unused product may be subject to RCRA regulations (40 CFR

261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the

Toxicity Characteristic Leaching Procedure (TCLP).

Flash Point : > 46 °C (ASTM D-56)

### 14. TRANSPORT INFORMATION

Note The flash point of this material is > 38 °C, and hence regulatory

classifications for flammability may vary.

**ADR** 

Proper shipping name **KEROSENE** UN number 1223 3 Class F Letter Packing group III

Labelling number 3

**CFR** 

Proper shipping name : **KEROSENE** UN number 1223 Class 3 F Letter Packing group IIILabelling number 3

IATA\_C

Proper shipping name **KEROSENE UN** number 1223 Class 3 F Letter Packing group IIILabelling number 3

**IMDG** 

Proper shipping name **KEROSENE** UN number 1223 Class 3 Letter F Packing group III

Labelling number

Marine pollutant Marine pollutant

Medical First Aid Guide

(MFAG) table

Emergency Schedule (EmS) 3-07

number

IMDG code page number 3375

Static Accumulator (50 picosiemens or less)

Communication Standard

15. REGULATORY INFORMATION

US OSHA Hazard Product assessed in accordance with OSHA 29 CFR 1910.1200 and

determined to be hazardous.

Governmental Inventory All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL,

KECI, ENCS, PICCS and IECSC. Status

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Yes

Product is dangerous as defined by the European Union Dangerous **EU** Labelling

Substances/Preparations Directives.

Symbols Xn, N

Harmful, Dangerous for the environment

R-Phrase(s) R10, R38, R67, R65, R51/53

Flammable., Irritating to skin., Vapours may cause drowsiness and dizziness., Harmful: may cause lung damage if swallowed., Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S2, S16, S43, S24, S62 S-phrase(s)

Keep out of the reach of children., Keep away from sources of ignition - No smoking., In case of fire use foam/drypowder/carbon dioxide., Avoid contact with the skin., If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Note : Contains straight-run Kerosene.

**SARA** 

U.S. Superfund Amendments and Reauthorization Act SARA

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

Title III

SARA (311/312) Reportable

**Hazard Categories** 

Fire Chronic Acute

SARA (313) Toxic Release

Chemicals:

This product contains no chemicals reportable under SARA (313) Toxic

Release Chemicals:

### The following product ingredients are cited on the lists below

Chemical name	CAS-No.	Concentration [%]	List Citations
Kerosene	8008-20-6	> 98.00	19, 21, 25, 26
Ethyl Benzene	100-41-4	< 1.00	1, 8, 10, 18, 19, 20, 21, 23, 24, 25, 26
Naphthalene	91-20-3	< 1.00	16, 22

### **Regulatory List Searched**

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	18 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

### **16. OTHER INFORMATION**

Note: Engen products do not contain PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Precautionary Label Text:

CONTAINS KEROSENE

## CAUTION!

COMBUSTIBLE LIQUID AND VAPOUR. CAUSES SKIN IRRITATION. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL - IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

SAFETY: Keep away from heat, sparks, and flame. Keep container closed. Use with adequate ventilation. Avoid breathing mist or vapour. Avoid prolonged or repeated skin contact.

FIRST AID: In case of contact, wash skin with soap and water. Remove contaminated clothing. Destroy or wash clothing before reuse. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights. This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. Chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm are created by the combustion of this product. Refer to product Material Safety Data Sheet for further safety and health information.

### **Disclaimer**

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Prepared by : Product Safety Adviser

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