



Safety Data Sheet

Illuminating Paraffin

Version 1.02

Revision Date 11.01.2011

1. Identification of the substance/mixture and of the company/undertaking

Trade name	Illuminating Paraffin
Synonyms	Illuminating Paraffin, Lamp Oil, Illuminating Kerosine
Company	Sasol Oil 32 Hill Street Randburg, 2125 South Africa

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Emergency telephone	Europe, Israel, Africa, Americas	+44 (0)1235 239 670
	Middle East, Arabic African countries	+44 (0)1235 239 671
	Asia Pacific	+65 3158 1074
	China	+86 10 5100 3039
	South Africa	+27 (0)17 610 4444
	Australia	+61 2 9032 0460

2. Hazards Identification

Identification of the risks

R45	May cause cancer.
R65	Also harmful: may cause lung damage if swallowed.
R10	Flammable.
R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.

Particular risks to human beings and the environment
Very toxic to aquatic organisms.

3. Composition/information on ingredients

Preparation on the base:

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha

Contents: >= 60.00 %W/W

CAS-No. 64742-82-1

Index-No. 649-330-00-2

EC-No. 265-185-4



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Symbol(s) T **R-phrases(s)** -R45 -R46 -R65

Kerosine (petroleum); Straight run kerosine

Contents: <= 20.00 %W/W

CAS-No. 8008-20-6

Index-No. 649-404-00-4

EC-No. 232-366-4

Symbol(s) Xn

R-phrases(s) -R65

heptane; n-heptane

Contents: >= 5.00 - <= 10.00 %W/W

CAS-No. 142-82-5

Index-No. 601-008-00-2

EC-No. 205-563-8

Symbol(s) F, Xn, N

R-phrases(s) -R11 -R38 -R50/53 -R65 -R67

octane; n-octane

Contents: <= 10.00 %W/W

CAS-No. 111-65-9

Index-No. 601-009-00-8

EC-No. 203-892-1

Symbol(s) F, Xn, N

R-phrases(s) -R11 -R38 -R50/53 -R65 -R67

methylcyclohexane

Contents: >= 5.00 - <= 10.00 %W/W

CAS-No. 108-87-2

Index-No. 601-018-00-7

EC-No. 203-624-3

Symbol(s) F, Xn, N

R-phrases(s) -R11 -R38 -R65 -R67 -R51/53

cyclohexane

Contents: >= 1.00 - <= 5.00 %W/W

CAS-No. 110-82-7

Index-No. 601-017-00-1

EC-No. 203-806-2

Symbol(s) F, Xn, N

R-phrases(s) -R11 -R38 -R65 -R67 -R50/53

toluene

Contents: >= 1.00 - <= 5.00 %W/W

CAS-No. 108-88-3

Index-No. 601-021-00-3

EC-No. 203-625-9

Symbol(s) F, Xn

R-phrases(s) -R11 -R38 -R48/20 -R63 -R65 -R67

xylene

Contents: >= 1.00 - <= 5.00 %W/W

CAS-No. 1330-20-7

Index-No. 601-022-00-9

EC-No. 215-535-7



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Symbol(s) Xn

R-phrases) -R10 -R20/21 -R38

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. First aid measures

General advice	Immediate medical attention is required.
Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, Dry powder, Foam
Specific hazards during fire fighting	Flash back possible over considerable distance.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers / tanks with water spray.

6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.

7. Handling and storage

Handling

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Safe handling advice Provide sufficient air exchange and/or exhaust in work rooms.
Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-HEPTANE	TWA	2,085 mg/m ³	12 2009	EU Exposure Limit Values
	TWA	500 ppm	12 2009	EU Exposure Limit Values
XYLENE, MIXED ISOMERS, PURE	TWA	221 mg/m ³	12 2009	EU Exposure Limit Values
	TWA	50 ppm	12 2009	EU Exposure Limit Values
	STEL	442 mg/m ³	12 2009	EU Exposure Limit Values
	STEL	100 ppm	12 2009	EU Exposure Limit Values

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

unsuitable gloves

Material: Polyvinylchloride, leather, nitrile rubber/nitrile latex, natural rubber/natural latex

Eye protection

Safety glasses with side-shields



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Skin and body protection	Protective suit, Safety shoes
Hygiene measures	Wash hands before breaks and immediately after handling the product.
Protective measures	Wear suitable protective equipment.

9. Physical and chemical properties

Form	liquid
state of matter	liquid; at 20 °C; 1,013 hPa
Colour	Clear to light yellowish brown
Odour	Hydrocarbon-like petroleum
Pour point	0 °C
Boiling point/boiling range	160 °C
Flash point	45 °C
Density	0.77 g/cm ³ ; 20 °C
Water solubility	Insoluble
Viscosity, kinematic	3 mm ² /s; 50 °C

10. Stability and reactivity

Materials to avoid	Oxidizing agents, Reducing agents
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11. Toxicological information

Acute oral toxicity	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha: LD50 rat: > 5,000 mg/kg; (literature value) Kerosine (petroleum); Straight run kerosine: LD50 rat: > 5,000 mg/kg; (literature value) toluene: LD50 rat: 5,000 mg/kg; literature value
Acute inhalation toxicity	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha: LC50 rat: > 12 mg/l; ; 6 h(literature value) Kerosine (petroleum); Straight run kerosine: LC50 rat: > 5 mg/l; ; 4 h(literature value) toluene: LC50 mouse: 5,320 mg/l; literature value



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Acute dermal toxicity	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha: LD50 rabbit: > 2,000 mg/kg; (literature value) Kerosine (petroleum); Straight run kerosine: LD50 rabbit: > 2,000 mg/kg; (literature value) toluene: LD50 rat: 12,124 mg/kg; literature value
Skin Irritation	toluene: rabbit: moderately irritating; (literature value)
Eye Irritation	Kerosine (petroleum); Straight run kerosine: rabbit: not irritating; Draize Test; (literature value) toluene: rabbit: Mild eye irritation; (literature value)
Sensitisation	Kerosine (petroleum); Straight run kerosine: Buehler Test guinea pig: ; Did not cause sensitization on laboratory animals.

12. Ecological Information

Ecotoxicity effects

Toxicity to fish	toluene: LC50 Pimephales promelas: 34.27 mg/l; 96 h; literature value toluene: LC50 Poecilia reticulata: 59.3 mg/l; 96 h; literature value toluene: LC50 Cyprinodon variegatus: 277 mg/l; 96 h; literature value
Toxicity to daphnia and other aquatic invertebrates.	toluene: LC50 Daphnia magna: 313 mg/l; 48 h; literature value

13. Disposal considerations

Product	Dispose of as special waste in compliance with local and national regulations.
Contaminated packaging	Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use., Store containers and offer for recycling of material when in accordance with the local regulations.

14. Transport Information

ADR	UN-Number: 1223; Class: 3; Packaging group: III; F1; Description of the goods: KEROSENE
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RID	UN-Number: 1223; Class: 3; Packaging group: III; F1; Description of the goods: KEROSENE
ADNR	UN-Number: 1223; Class: 3; Packaging group: III; F1; Description of the goods: KEROSENE
IMDG	UN-Number: 1223; Class: 3; EmS: F-E, S-E; Packaging group: III; Description of the goods: KEROSENE
ICAO/IATA	UN-Number : 1223; Class: 3; Packaging group: III; Description of the goods: Kerosene

15. Regulatory information

Labelling



Regulatory base

1999/45/EC

Symbol(s)

T: Toxic
N: Dangerous for the environment

R-phrases(s)

R45: May cause cancer.
R65: Also harmful: may cause lung damage if swallowed.
R10: Flammable.
R38: Irritating to skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.
R67: Vapours may cause drowsiness and dizziness.

S-phrases(s)

S53: Avoid exposure - obtain special instructions before use.
S35: This material and its container must be disposed of in a safe way.
S36/37: Wear suitable protective clothing and gloves.
S43: In case of fire, use sand, dry chemical or alcohol-resistant foam.
S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.



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Special labelling of certain mixtures

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Restricted to professional users.

Hazardous components which must be listed on the label

Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha

toluene

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R11	Highly flammable.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSI Z400.1.1993. The MSDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.

The MSDS was created by: MOTLATSI
The MSDS was approved by: S. Shabalala



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