



ESS eSDS™ Services ESS eSDS™ Cover Sheet

TO:	Greenergy
DATE:	02 Dec 10 12:34

SDS DETAILS	
CAS:	8008-20-6
SUBSTANCE:	Kerosine (petroleum)
SDS LANGUAGE:	English
NOTES:	

DEAL DETAILS	
INCOMING REF NO:	
VESSEL / BARGE:	
LOCATION:	United Kingdom
ESTIMATED ARRIVAL DATE:	
APPROXIMATE TONNAGE:	
ADDITIONAL INFORMATION:	

Greenergy

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING	
Commercial Product Name	Kerosene
Product Identifier:	
Company	Greenergy Fuels Limited
	198
	High Holborn
	London
	WC1V 7BD
	United Kingdom
Telephone number	02074047700
Email	msds-info@greenergy .com
Fax	
Emergency telephone number	02074047700

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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008 (Annex VII of CLP)

CLP-Classification : The product is classified as hazardous in accordance with Directive 1272/2008/EEC.

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The product is classified as dangerous in accordance with Directive 67/548/EEC.
Kerosene (petroleum)

2.1.3. Adverse human effects

Most important hazards : R10 - Flammable.
R38 - Irritating to skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.

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

2.2 Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008 (Annex VII of CLP)



Signal word : Danger

CLP Hazard statements : H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H304 - May be fatal if swallowed and enters airways.
H411 - Toxic to aquatic life with long lasting effects.

CLP Precautionary statements : P301+P310 - If swallowed, immediately call a doctor.
P331 - Do NOT induce vomiting
P264 - Wash ... thoroughly after handling.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P273 - Avoid release to the environment

2.2.2. Labelling according to Directives (67/548/EEC - 1999/45/EC)



Xn : Harmful



N : Dangerous for the environment

R-phrase(s) : R10 - Flammable.
R38 - Irritating to skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 - Harmful: may cause lung damage if swallowed.

S-phrases : S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

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2.3. Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances / 3.2. Mixtures

REACH type : Substance

Substance name	Values (%)	CAS no	EC No	EC Index	Symbol(s):	R-phrases(s)
Kerosene (petroleum)	0 - 100	8008-20-6	232-366-4	649-404-00-4	Xn, N	R10, R65, R38, R51/53

Full text of R-phrases: See section 16.

Substance name	Values (%)	CAS no	EC No	EC Index	CLP pictograms	CLP Hazard statements
Kerosene (petroleum)	0 - 100	8008-20-6	232-366-4	649-404-00-4	GHS08,GHS02,GHS07,GHS09	H226,H304,H315,H336,H411

Full text of the H-statements: See section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	: Keep at rest. Move to fresh air. Oxygen or artificial respiration if needed. Call a physician immediately.
Skin contact	: Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion	: Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: May cause irritation of respiratory tract.
Skin contact	: Irritating to skin.
Eye contact	: Contact with eyes may cause irritation.
Ingestion	: Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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4.3. Indication of immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray or alcohol resistant foam.
 Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire Hazard : Flammable.
 Specific hazards : Evacuate personnel to safe areas. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Flash back possible over considerable distance. The pressure in sealed containers can increase under the influence of heat. Cool containers / tanks with water spray. Burning produces noxious and toxic fumes. Possible decomposition products are: CO_x Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Wear personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : See also section 8. Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Ensure all equipment is electrically grounded before beginning transfer operations. Do not smoke.

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Remove all sources of ignition. Do not use tools which may produce sparks. Prevent further leakage or spillage if safe to do so. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : See also section 8. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Do not breathe vapours or spray mist. Ensure adequate ventilation. Always replace cap after use. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate. Ensure all equipment is electrically grounded before beginning transfer

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operations.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store near or with any of the incompatible materials listed in section 10.

7.3. Specific end use(s)

Specific use(s) : see chapter Exposure scenario

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Component : **Kerosene (petroleum) (8008-20-6)**
 TLV-TWA (mg/m³) : 200 (Belgium, Spain); 100 (Poland); 250 (UT4, Kraftstoff, Germany)
 TLV-STEL (mg/m³) : 300 (Poland)

DNEL : Exposure scenario
 PNEC : Exposure scenario

8.2. Exposure controls

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. (type A2)

Hand protection : Rubber gloves (EN 374)- Nitrile rubber The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : Safety glasses (EN166)

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling the product. Use only in area provided with appropriate exhaust ventilation. Eye wash bottle with pure water Use only in an area equipped with a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : liquid
 Colour : yellow
 Odour : petroleum hydrocarbon odour

pH : no data available
 Boiling point/boiling range : ~ 125 - 292 °C
 Melting point/range : ~ -48 - 26 °C
 Flash point : ~ >= 49 °C (CC)
 Autoignition temperature : no data available
 Explosive properties : no data available
 Oxidizing properties : no data available

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Evaporation rate : no data available
Vapour pressure : ~ 14 hPa @ 37,8°C
Vapour density : no data available
Water solubility : insoluble
Viscosity : no data available
Density : ~ 0,79 - 0,82 g/cm³ @ 15°C
Partition coefficient: n-octanol/water : 3,3 - 6

9.2. Other information

No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No data available

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials : Oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products : Burning produces noxious and toxic fumes. Possible decomposition products are: COx

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General Information

No data available

Acute toxicity

Component : **Kerosene (petroleum) (8008-20-6)**
LD50/oral/rat : > 5000 mg/kg

Inhalation : May cause irritation of respiratory tract.
Skin contact : Irritating to skin.
Eye contact : Contact with eyes may cause irritation.
Ingestion : Harmful: may cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic toxicity

Chronic toxicity : No adverse effects are expected.

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Further information

No data available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and degradability : No information available.

12.3. Bioaccumulative potential

Bioaccumulation : No information available.

Partition coefficient: n-octanol/water : 3,3 - 6

12.4. Mobility in soil

Mobility : insoluble

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products : Dispose of in accordance with local regulations. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.

Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. The following Waste Codes are only suggestions: 130703 - other fuels (including mixtures) 150110 - packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

14.1. UN Number

UN number : 1223

14.2. UN proper shipping name

Proper shipping name : KEROSENE

Transport document description : UN 1223 KEROSENE, 3, III, (D/E)

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class : 3 - Flammable liquids

Danger code : 30

ADR classification code : F1

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ADR danger labels : 3 - Flammable liquid



ADR tunnel restriction code : D/E
 ADR limited quantities : LQ07
 ADR excepted quantities : E1

Inland waterway transport (ADN/ADNR)

ADNR UN number : 1223
 ADNR class : 3
 ADNR packing group : III
 ADNR danger labels : 3

14.3.2. Transport by sea

IMDG :
 EmS : F-E, S-E

14.3.3. Air transport

No data available

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Marine pollutant : P



Other information (transport) : No supplementary information available.

14.6. Special precautions for users

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No data available

15.1.2. National regulations

WGK : 2

15.2. Chemical Safety Assessment

No data available

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16. OTHER INFORMATION

Text of R phrases mentioned in Section 3	: R10 -Flammable. R38 -Irritating to skin. R51/53 -Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 -Harmful: may cause lung damage if swallowed.
H-statements components	: H226 -Flammable liquid and vapour. H304 -May be fatal if swallowed and enters airways. H315 -Causes skin irritation. H336 -May cause drowsiness or dizziness. H411 -Toxic to aquatic life with long lasting effects.
Sources of key data used to compile the datasheet	: European Chemicals Bureau
Updated sections	: 2,3,15,16

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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