

SAFETY DATA SHEET



Product name: Fuel Oil
Revision Date: 2015-03-19
Product No.:

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Print date: 2015-03-19
SDS-ID: GB-EN/1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Fuel Oil
Fuel Oil 180 cSt
Fuel Oil LS
Fuel Oil HS

Container size: -

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Fuel

1.3. Details of the supplier of the safety data sheet

Supplier: Unioil Supply A/S
Strandvejen 5
DK-5500 Middelfart
Denmark
Tel:+45 88 82 81 81

Responsible for safety data sheet authoring: SDS_info@dhigroup.com

1.4. Emergency telephone number

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is classified:

67/548/EEC / 1999/45/EC: Carc2;R45 Repr3;R63 Xn;R20 Xn;R48/21 R66 N;R50-53

GHS/CLP: Carc. 1B;H350 - Repr. 2;H361d - Acute Tox. 4;H332 - STOT RE 2;H373 - EUH066 - Aquatic Acute 1;H400 - Aquatic Chronic 1;H410

Human health: May cause cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure in contact with skin. Harmful if inhaled. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

Environment: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements



Danger

Contains: Fuel oil, residual; Heavy Fuel oil

H332 Harmful if inhaled.

H350 May cause cancer.

H361d Suspected of damaging the unborn child.

H373b May cause damage to organs through prolonged or repeated exposure in contact with skin.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

P201 Obtain special instructions before use.

P260h Do not breathe vapour/spray.

P273 Avoid release to the environment.

P308/313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P501a Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

PBT/vPvB: Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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67/548/EEC:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
90-100	68476-33-5	270-675-6	01-2119474894-22-	Fuel oil, residual; Heavy Fuel oil	Carc2;R45 Repr3;R63 Xn;R20 Xn;R48/21 R66 N;R50-53	
1-10	68334-30-5	269-822-7	01-2119484664-27-	Fuels, diesel	R10 Carc3;R40 Xn;R20 Xn;R48/21 Xn;R65 Xi;R38 N;R51-53	

GHS/CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
90-100	68476-33-5	270-675-6	01-2119474894-22-	Fuel oil, residual; Heavy Fuel oil	Carc. 1B;H350 Repr. 2;H361d Acute Tox. 4;H332 STOT RE 2;H373 EUH066 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	
1-10	68334-30-5	269-822-7	01-2119484664-27-	Fuels, diesel	Flam. Liq. 3;H226 Carc. 2;H351 Acute Tox. 4;H332 Asp. Tox. 1;H304 STOT RE 2;H373 Skin Irrit. 2;H315 Aquatic Chronic 2;H411	

References: The full text for all R-phrases and hazard statements are displayed in section 16.

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air.

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing or after inhalation of oil mist: Seek medical attention and bring along these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

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

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

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Not known.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use water jet as an extinguisher, as this will spread the fire.

Stop leak if possible without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

5.2. Special hazards arising from the substance or mixture

Specific hazards: During fire, gases hazardous to health may be formed. Do not allow runoff to sewer, waterway or ground.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid any exposure. Warn everybody of potential hazards and evacuate if necessary. Follow precautions for safe handling described in this safety data sheet.

Protective equipment: Clean-up personnel should use respiratory and/or liquid contact protection.

6.2. Environmental precautions

Environmental precautions: Stop leak if safe to do so. Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Absorb spillage with oil-absorbing material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

References: For personal protection, see section 8.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Avoid any exposure. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets. Observe good chemical hygiene practices.

Technical measures: Work practice should minimise contact. Use work methods which minimise spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not store tobacco, food or beverage in work rooms or areas where the product is used. Do not eat, drink or smoke when using the product.

Technical precautions: Mechanical ventilation may be required. Provide easy access to water supply and eye wash facilities.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in tightly closed original container in a well-ventilated place. Keep locked up and out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific use(s): Not relevant.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

8.2. Exposure controls

<u>Engineering measures:</u>	Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Eye wash facilities and emergency shower must be available when handling this product.
<u>Personal protection:</u>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<u>Respiratory equipment:</u>	In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P3) can be used.
<u>Hand protection:</u>	Wear protective gloves. It is recommended to use gloves of Viton or nitrile rubber. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by the glove supplier.
<u>Eye protection:</u>	Risk of splashes: Wear goggles/face shield.
<u>Skin protection:</u>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<u>Hygiene measures:</u>	Wash hands after handling. Use appropriate hand lotion to prevent defatting and cracking of skin. Promptly remove any clothing that becomes wet or contaminated. Personal protection may not be worn during meal breaks. Personal protection must be kept separate from other clothes. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Do not store tobacco, food or beverage in work rooms or areas where the product is used.
<u>Environmental Exposure Controls:</u>	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Appearance:</u>	liquid/mineral oil
<u>Odour:</u>	characteristic
<u>Flash point:</u>	>60°C

9.2. Other information

<u>Other data:</u>	Refer to Certificate of Quality
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: None known.

10.2. Chemical stability

Stability: Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

10.4. Conditions to avoid

Conditions/materials to avoid: None specific.

10.5. Incompatible materials

Incompatible materials: Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products: When heated, vapours/gases hazardous to health may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The harmful effects may increase in used oil.

Inhalation: Harmful if inhaled.
Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing. Vapour may affect central nervous system and cause headache, discomfort, vomiting or intoxication.

Skin contact: May cause damage to organs through prolonged or repeated exposure in contact with skin.
Repeated exposure may cause skin dryness or cracking.

Eye contact: Direct contact may irritate.

Ingestion: May irritate and cause malaise. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately.

Specific effects: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

The product is classified: May cause cancer.

The product is classified: Suspected of damaging the unborn child.

Toxicological data: Acute Toxicity (Oral LD50): >5000 mg/kg (Rat)
Acute Toxicity (Dermal LD50): >2000 mg/kg (Rabbit)
Acute Toxicity (Inhalation LC50): 4,1 mg/l (Rat)

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

68476-33-5, Fuel oil, residual; Heavy Fuel oil
M-Factor (Acute) = 1
EbL50: (Pseudokirchneriella subcapitata, 72 hours): 0,4 mg/l

M-Factor (Chronic) = 1
NOEL: (Daphnia magna): 0,27 mg/l

12.2. Persistence and degradability

Degradability: The product is expected to be slowly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: The product contains potentially bioaccumulating substances.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: Not relevant.

12.6. Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 13 07 01
Used cloths, etc. EWC-code: 15 02 02

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SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN-No: 3082

14.2. UN proper shipping name

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Heavy Fuel Oil)

14.3. Transport hazard class(es)

Class: 9

14.4. Packing group

PG: III

14.5. Environmental hazards

Marine pollutant: Yes.

Environmentally Hazardous substance: Yes.

14.6. Special precautions for user

Special precautions: None known.

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

Transport in bulk: Not relevant.

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SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).
The Control of Substances Hazardous to Health Regulations 2002 (S.I. 2002 No. 2677) with amendments.
EH40/2005, Workplace exposure limits 2005, with amendments.
The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status: Not relevant.

SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. For restrictions on use see section 15.

Additional information: Classification according to Regulation (EC) No. 1272/2008:
On basis of test data.
Calculation method.

Wording of

R-phrases/H-statements:

R20	Harmful by inhalation.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R45	May cause cancer.
R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.
R66	Repeated exposure may cause skin dryness or cracking.
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H373b	May cause damage to organs through prolonged or repeated exposure in contact with skin.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
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