



Material Safety Data Sheet

Product – ULSD Diesel

1) Identification of the substance/preparation and of the company/undertaking

Identification of Substance / preparation: This safety data sheet covers ULSD Diesel.

Application: Fuel for compression ignition diesel engines used to power vehicles on the public highway.

Company Identification: Shelford Petroleum Oil Transport Ltd t/a Shelford Energy 2 Station Road Great Shelford Cambridge CB2 5LT

2) Composition/information on ingredients

Name	%Wt	CAS No.	EC No
Fuel, diesel	95-99.99	68334-30-5	269-822-7

Xn R 40 Possible risk of irreversible effects.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Product contains small amounts of additives.

3) Hazards identification

Harmful if swallowed, aspirational hazard. This material may contain significant quantities of polycyclic aromatic hydrocarbons (PCAs), some of which have been shown by experimental studies to induce skin cancer.

4) First aid measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention. External cardiac massage may be instituted if the heart has stopped.

Skin contact: Wash skin with plenty of soap and water until all traces of material are removed.

Remove and clean contaminated clothing and shoes. Get medical attention if skin irritation persists or skin contact has been prolonged.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.

Other recommendations: Aspiration of this product during induced vomiting can result in lung injury, which may be fatal. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

5) Fire fighting measures

For major fires call the Fire Service. Ensure an escape path is always available from any fire. There is a danger of flashback if sparks or hot surfaces ignite vapour. Use foam, dry powder or water fog. DO NOT USE water jets. Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Combustion Products: Toxic fumes may be evolved on burning or exposure to heat. See Stability and Reactivity, Section 10 of this Safety Data Sheet.

6) Accidental release measures

Stop product flow if possible, ventilate area. Avoid breathing vapour. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Avoid contact with skin, eyes or clothing. Prevent entry into sewers and waterways. If unable to prevent entry into waterways inform the local authorities and call emergency services if warranted.



Material Safety Data Sheet

Product – ULSD Diesel

7) Handling and storage

Handling: Local exhaust ventilation recommended if generating vapour or mist. If exhaust ventilation is not available or inadequate, use approved respirator as appropriate.

This product may contain volatile hydrocarbons which may accumulate in the container headspace, thereby creating a flammable or explosive atmosphere.

Storage: Transport, handle and store in accordance with applicable local regulations. Ground and bond shipping container, transfer line and receiving container if there is a chance that the tank has previously contained low-flash material.

Keep away from heat, sparks, flame and other sources of ignition.

Protect containers against static electricity, lightning and physical damage.

8) Exposure controls/personal protection

Respiratory protection: Airborne concentrations should be kept to lowest levels possible. If vapour, mist fumes are generated, use approved respirator as appropriate. Supplied air respiratory protections should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. Oxygen levels should be at least 19.5% in confined spaces or other work areas.

Hand and skin protection: Protective clothing such as uniforms, coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required.

Eye protection: Chemical type goggles or face shield recommended to prevent eye contact.

Exposure limit for the product: None established for product.

9) Physical and chemical properties

Appearance	Colourless - Yellow
Odour	Petroleum odour
Flash point, °C	> 56 min (PMMC)
Relative density	0.82 – 0.86 @ 15°C
Viscosity	2 – 5 mm ² /s @ 40 °C
Boiling point/range, °C	160 – 385

10) Stability and reactivity

Stable at ambient temperatures. Hazardous polymerisation reactions will not occur.

Conditions to Avoid: Sources of ignition.

Materials to Avoid: Avoid contact with strong oxidising agents.

Hazardous Decomposition Products: Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

11) Toxicological information

Eyes: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs

Skin: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated contact may lead to dermatitis. As with all such products containing harmful levels of PCAs, prolonged or repeated skin contact may eventually result in dermatitis or more serious irreversible skin disorders including cancer.

Ingestion: Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. Will injure the lungs if aspiration occurs, eg. during vomiting.

Inhalation: May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.

12) Ecological information

Mobility: Spillage may penetrate the soil causing groundwater contamination. This product may accumulate in sediments.

Persistence and degradability: This product is inherently biodegradable.

Bioaccumulative potential: Contains components that have a high potential to bio-accumulate.

Aquatic toxicity: Toxic to aquatic organisms. May cause long term effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

German WGK Classification: 2



Material Safety Data Sheet

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13) Disposal considerations

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or into the soil. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.

14) Transport information

ADR/RID: Gas Oil, Flammable Liquid, Class 3, Item 31 (c), Hazard Identification No 30

UN: GAS OIL, Flammable liquid, Class 3, Packing Group III, UN number 1202

IATA/ICAO: Gas Oil, Flammable liquid, Class 3, Packing Group III

IMO: GAS OIL, Flammable liquid, Class 3.3, Packing Group III

EMERGENCY ACTION CODE: Flammable liquid, 3[Z]

15) Regulatory information

EU Category of Danger: Carcinogenic category 3 Harmful

EU Labelling: Symbol: St. Andrew's Cross Indication of Danger: HARMFUL Contains: Fuels, Diesel

Risk (R) Phrases: R40 Possible risks of irreversible effects R65 Harmful: May cause lung damage if swallowed.

Safety (S) Phrases: S2 Keep out of reach of children S24 Avoid Contact with skin R36/37 Wear protective clothing and gloves S43 In case of fire use foam/dry powder/CO2. Never use water jets S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label S61 Avoid release into the environment. Refer to special instructions/Safety data sheets.

16) Other information

Compiled by: Shelford Energy Ltd. 2 Station Road Great Shelford Cambridge CB2 5LT

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date 02/01/2003.

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02/01/2003.