

Synonyms: **Gas Oil, Derv, Ultra Low Sulphur Diesel, ADIO**  
Version: **1**

Version of: **27.10.08**

This sheet supersedes the one dated: **12.07.05 / 05.08**

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## Product Labels

**LABELLING (standard or EU):** Concerned

**Symbol(s):**



**Symbol(s):** Xn Harmful N Dangerous for the environment.

**Contains:** Gasoil

**R-phrases:** R-40 Limited evidence of a carcinogenic effect.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases:** **S-36/37 Wear suitable protective clothing and gloves.**  
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.  
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
S-29 Do not empty into drains.  
S-2 Keep out of reach of children.

## 1. Identification of the Substance/Preparation and of the Company Undertaking

**Name of the product:** DIESEL (UK )

**Other products concerned:** DERV, ULTRA LOW SULPHUR DERV, GAS OIL CI, ULTRA LOW SULPHUR GAS OIL, MARINE GAS OIL, MARINE DIESEL OIL.

**Product application:** Fuel for diesel engines and combustion turbines

**Supplier:** Rix Petroleum Limited  
Witham House  
45 Spyvee Street  
Hull  
HU8 7JR  
Telephone No: (Hull) 01482 224422

**Poisons Advice Centre:** NHS Direct: 0845 46 47 / Textphone: 0845 606 46 47

**Burns Units:** NHS Direct: 0845 46 47 / Textphone: 0845 606 46 47

**See local details at end of sheet:**

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## 2. Composition/Information on Ingredients

### PREPARATION

**Chemical nature:**

Substance composed of paraffin hydrocarbons, naphthenic, aromatic and olefin hydrocarbons, with mainly hydrocarbons from C9 to C20 (CAS: 68334-30-5).

Contains also:

- Vegetable oil esters such as methyl ester from rapeseed oil =<5% vol (in certain cases =< 30% vol)
- Multi-purposes additives to boost performance.C.

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Gasoil		68334-30-5	>90 %	Xn ,N	R-40, 65, 66, 51/53

**See section 16 for explanations of R-phrases:**

**Additives:**

1. Middle distillate flow improvers (various) up to 1000ppm. (Dispersion of Ethylene vinyl acetate in an organic solvent). CAS No. 24937-78-8.
2. Cetane improvers (Alkyl Nitrates) - up to 500ppm. CAS No. 27247-96-7 EINECS No. 269-822-7.
3. May contain Dye and Chemical Marker - Gas Oil Marker Concentrate. CAS No. 68334-30-5.
4. Antistatic Additive 1-3ppm
5. May contain a multifunctional detergent
6. Fatty Acid Methyl Ester (FAME) ≤ 5% CAS No. 67762-39-3, EINECS No. 267-015-4

## 3. Hazards Identification

**Health effects:**

Prolonged or repeated contact with skin destroys the lipoacid skin layer and may cause dermatitis.

Vapours or mists are irritating for mucous membranes, notably in the eyes.

If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

**Environmental impact:**

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

**Product classification:**

Category 3 carcinogen  
 Harmful: may cause lung damage if swallowed.  
 Dangerous for the environment.

#### **4. FIRST AID MEASURES**

<b>General:</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CONSULT A DOCTOR OR CALL FOR EMERGENCY MEDICAL AID.
<b>Inhalation:</b>	In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest. Possible irritation of the respiratory tract and the mucous membranes. If breathing has stopped, apply artificial respiration.
<b>Ingestion:</b>	Consult a doctor. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Allow the person to rest. Possible risk of vomiting and diarrhoea.
<b>Skin contact:</b>	Immediately remove all soiled or stained clothing. Wash immediately and abundantly with soap and water. If the skin is exposed to high-pressure spray, the product may enter the human body. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected.
<b>Eye contact:</b>	Wash immediately in copious amounts of water, keeping eyelids apart for at least 15 minutes and consult a specialist.
Aspiration:	Aspiration of the liquid into the lungs is extremely dangerous (acute lung conditions). If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

## 5. FIRE FIGHTING MEASURES

**Flash point:**

see heading 9 - "Physical and chemical properties"

**Extinguishing media:**

- suitable:

Foam, CO<sub>2</sub>, powder, possibly water spray (preferably water containing a wetting agent).

- not recommended:

Solid water streams are prohibited as they could help to spread the flames.

Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Specific fire-fighting methods:** Cool down any tanks and surfaces exposed to fire by spraying abundantly with water.

Isolate the source of the combustible product; allow to burn out under supervision or use appropriate fire extinguishers, as applicable.

**Specific hazards:**

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

These may be highly dangerous if inhaled.

**Protective measures for firefighters:**

Use water curtains to protect the personnel.

Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal protection:**

As applicable in view of the risk of exposure, wear hydrocarbon-resistant protective clothing, a mask (if inhaling vapours is a risk), gloves, goggles, and boots (see also section 8).

**After spillage / leakage:**

Do not allow to penetrate into sewers, rivers and ground water.

Cover discharges with foam in order to reduce the risks of ignition.

In case of spillage, contact the competent authorities if the situation cannot be brought under control rapidly and efficiently.

**Spill cleanup methods:**

- Recovery:

Use mechanical means such as pumps, skimmers and absorbent materials.

Never use dispersing agents.

Contain and collect the spilled product with sand or any other inert absorbent material.

Preserve the waste in closed and sealed recipients.

- Elimination:

Hand over contaminated materials to an approved collector - see also section 13.

Do not discard to sewers.

**Prevention of secondary risks:** Remove all sources of ignition.

## 7. HANDLING AND STORAGE

### HANDLING:

**Prevention of user exposure:** Prevent the formation of vapours, mist and aerosols.  
Handle in well-ventilated premises.  
Keep the product away from food and beverages.  
Operations involving the inspection, cleaning and maintenance of storage containers require the application of strict procedures and must be entrusted to qualified specialist personnel only.  
DO NOT SMOKE.  
AVOID INHALING VAPOURS.  
AVOID CONTACT WITH THE SKIN AND MUCOUS MEMBRANES.  
NEVER ATTEMPT TO PRIME THE CONTAINER SIPHON BY SUCKING WITH THE MOUTH.  
WEAR SUITABLE PROTECTION AND PROTECTIVE CLOTHING.  
Never weld, drill, grind, cut or saw any empty container.

### Prevention of fire and explosion:

Arrange machinery and equipment so as to prevent the sheet of burning product from spreading (retention pits and basins, syphons in the water drainage system).  
Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings).  
Do not use compressed oxygen or air when transferring or pouring the products.  
OPERATE ONLY ON COLD AND DEGASSED RESERVOIRS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION).

### Precautions:

Loading and unloading must be carried out at ambient temperature. To prevent risks related to static electricity build-up, ensure that the machinery, equipment and tanks are properly earthed, prohibit splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation.  
Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing.  
Remove any soiled or splashed clothing immediately.  
After contact with skin, wash immediately with plenty of water and soap.  
Avoid breathing in vapours, fumes or mists.  
Do not eat or drink or smoke during use.  
Avoid contact with strong oxidising agents.  
Use only hydrocarbon-resistant containers, joints, pipes etc...

### STORAGE:

#### Technical measures:

Prevent any build-up of static electricity.  
Make the necessary arrangements to prevent water and soil pollution.  
Don't withdraw the danger labels of the containers (even if they are empty).

#### Storage precautions:

- Suitable:  
Store packaged product (drums, samples, cans...) in well-ventilated areas.  
STORE AT AMBIENT TEMPERATURE, away from water, moisture, heat, and any source of ignition.  
- To be avoided:  
Do not store exposed to the elements.

#### Incompatible products:

Dangerous reaction when in contact with strong oxidizers (herbicides etc...).

#### Packaging materials:

- Recommended:  
Use only hydrocarbon-resistant containers, joints, pipes, etc.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Technical measures:</b>	Use the product in a properly ventilated atmosphere. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Occupational exposure limit:	. oil mist : 10mg/m <sup>3</sup> , for 15 minutes . oil mist : 5mg/m <sup>3</sup> , for 8 hours
Respiratory protection:	In confined premises, protective respiratory equipment may need to be used.
Hand protection:	Impermeable hydrocarbon-proof gloves. - In case of splashes or limited contact : Recommended materials: neoprene > 0,5 mm, PVC > 0,2 mm of liquid-proof material / > 60 minutes (EN 374-3). - In case of prolonged or repeated contact : Recommended materials : Fluoro polymer, PVA, all layer thickness, Nitrile > 0,3 mm, neoprene / > 480 minutes (EN 374-3). For more precise details about the choice of appropriate protective glove, please contact the manufacturer.
Eye protection:	Goggles, in case of risk of splashing. (EN166) Skin and body (other than the hands) protection : Face mask, hydrocarbon-proof clothing, safety boots, as applicable.
Hygienic work practices:	Avoid contact with the skin. If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water. In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Yellow.
<b>Odour:</b>	Characteristic.
<b>Density/specific gravity:</b>	820 - 875 kg/m <sup>3</sup> Temperature (°C) 15
<b>Flash point:</b>	> 55 °C (NF EN ISO 22719)
<b>Auto Ignition Temperature:</b>	> = 250 °C (ASTM E 659)
<b>Comments on autoignition temperature:</b>	This value may be significantly lower in the case of contact with potentially catalytic materials (metals like copper, strongly divided materials)
<b>Flammability limit - lower(%):</b>	0,5
<b>Flammability limit - upper(%):</b>	5
<b>Comments on explosivity:</b>	Explosive mixtures may form in contact with air.
<b>Temperatures at phase change:</b>	Initial distillation point: >= 150 °C    Distillation range within: ~ 150-380 ° C
<b>Vapour density:</b>	> 5 (air=1)
<b>Vapour pressure:</b>	< 100 kPa / 10 kPa Temperature (°C) 100 / 40
<b>Solubility:</b>	- in water: Practically immiscible - in organic solvents: Soluble in many common solvents.
<b>Partition coefficient (log Pow):</b>	Log Pow = 3,9 - 6
<b>Viscosity:</b>	< 7 mm <sup>2</sup> /s à 40°C
<b>Further information:</b>	- pH: not applicable

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	The product is stable at normal storage, handling and use temperatures.
<b>Conditions to avoid:</b>	Heat, sparks, ignition points, flames, static electricity.
<b>Materials to avoid:</b>	Strong oxidising agents.
<b>Hazardous decomp. products:</b>	Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity / Local effect:

**Inhalation, comments:** Strong concentrations of vapour, mist or spray may be irritating for the respiratory tract and for mucous membranes.

**Skin contact, comments:** Not classified.

**Eye contact, comments:** Not classified as irritating, but may cause a burning feeling and temporary reddening.

**Ingestion, comments:** Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours min).

### CHRONIC TOXICITY OR LONG-TERM TOXICITY:

**Skin contact:** Prolonged or repeated contact with the skin destroys the lipoacid skin layer and may cause dermatitis with the risk of secondary allergies.

**Sensitization:** Not classified as allergenic.

**Carcinogenicity:** Possible risks of irreversible effects.  
Certain tests on animals have shown a development of malignant skin tumours.

## 12. ECOLOGICAL INFORMATION

**Comments about ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (CONCAWE recommendation).

**Mobility:**

- Air:  
Having low volatility at room temperature, the product evaporates in the atmosphere and disperses to a degree, depending on local conditions.
- Soil:  
The product may infiltrate the ground.
- Water:  
The product spreads on the surface of the water. A small amount may dissolve.

**Bioaccumulation:** The potential for bioaccumulation of the product in the environment is very low.

**Persistence and degradability:** The majority of the components of the product are intrinsically biodegradable

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### 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** The recommended method is recycling or incineration at an approved installation.

**Disposal of contaminated packaging:**

Empty packagings may contain flammable or explosive vapours.  
Disposal via an authorised waste contractor.

### 14. TRANSPORT INFORMATION

**UN Number:** 1202

**Proper shipping name (national):**  
DIESEL FUEL

**Proper shipping name (international):**  
DIESEL FUEL

**Label for conveyance:**



**Road (ADR) / Rail (RID):**

**Class:** 3

**Code de classification:** F1

**Hazard Label(s):** 3

**Hazard identification number:** 30

**Packing Group:** III

**Transport by barge (ADNR):**

**Class:** 3

**Code de classification:** F1

**Hazard Label(s):** 3

**Packing Group:** III

**Marine (IMO-IMDG):**

**Class:** 3

**Hazard Label(s):** 3

**Safety card:** F-E, S-E

**Packing Group :** III

**Special provisions:** - ADR / RID / ADNR : 640L

**UK Road Transport Class:** 3

**HAZCHEM code:** 3/Y

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## 15. REGULATORY INFORMATION

**Symbol(s):**



**Symbol(s):**

Xn Harmful N Dangerous for the environment.

**Contains:**

Gasoil

**Risk phrases:**

R-40 Limited evidence of a carcinogenic effect.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**

S-36/37 Wear suitable protective clothing and gloves.  
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.  
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
S-29 Do not empty into drains.  
S-2 Keep out of reach of children.

**EU directives:**

Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC). D. 67/548/EC modified by D. 2004/73/EC (29th ATP)

## 16. OTHER INFORMATION

HSE Infoline: 08701 545500 / Minicom: 02920 808537

This sheet is in compliance with the standards defined by the directives 91/155/CEE, 93/112/CEE, 2001/58/CE and the article 14 of the directive 1999/45/EC.

**Explanations of R-phrases in section 2 :**

R-40 Limited evidence of a carcinogenic effect.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**RECOMMENDED USES AND RESTRICTIONS ON USE:**

The product is to be used exclusively for the production as fuel for diesel engines and combustion turbines

**Revision date:**

2007-08-07

**Supersedes the data sheet of:**

2005-12-07

\* Information revised since the previous version of the SDS :

**Safety Data Sheet status :** Approved.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.