

Safety Data Sheet

Product name :

DIESEL / GASOIL / DERV

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SDS n° :30226-44

Version :2.00

Version of :2008-06-16

This sheet supersedes the one dated :2006-06-13

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.

TRANSPORT LABELLING:

Applicable (see section 14)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Name of the product :

DIESEL / GASOIL / DERV

*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 :

TOTAL UK LIMITED
40 Clarendon Road
Watford, Hertfordshire. WD17 1TQ
UNITED KINGDOM
Tel: 01923 694000
Fax: 01923 694400
rm.gb-msds@total.co.uk

*Contact :

Specific Product Related Info: 01923 694000

*Emergency telephones :

UK -
01923 694000

*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 :

Manufacturer :

TOTAL UK LIMITED
40 Clarendon Road
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2. 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.
*Physico-chemical hazards :	The product may form flammable mixtures with air when heated above the flash point.
Product classification :	Category 3 carcinogen Harmful: may cause lung damage if swallowed. Dangerous for the environment.

3. 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). Possibly: - Vegetable oil esters such as methyl ether from rapeseed oil =< 7% vol . - Multi-purposes additives to boost performance.
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Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Gasoil	269-822-7	68334-30-5	>90 %	Xn ,N	R-40, 65, 66, 51/53

See section 16 for explanations of R-phrases :

4. FIRST AID MEASURES

General :	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CONSULT A DOCTOR OR CALL FOR EMERGENCY MEDICAL AID.
Inhalation :	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.
Ingestion :	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.
Skin contact :	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. Infection in case of skin absorption (high pressure stream).
Eye contact :	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.

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5. FIRE FIGHTING MEASURES

Flash point:

see heading 9 - "Physical and chemical properties"

Extinguishing media :

- suitable:

Foam, CO₂, 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.

When the temperature is close to the flash point, the vapour pressure is so high that it may create an explosive atmosphere above the stored product.

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 :

Avoid skin contact with the poured product.

Eliminate any possible source of ignition and ensure a good ventilation.

As applicable in view of the risk of exposure, wear appropriate gloves, goggles, boots and protective clothing. Spills of this product can make surfaces slippery.

It may be necessary to wear a mask or a half-mask (organic vapour cartridge, type A) if there is a risk of

inhaling vapors in a confined space (for exemple leakage in a closed area).

Refer to point 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 :

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.

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 :

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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.
Empty containers may contain flammable or explosive vapours.
Never saw any container or empty pipe that has not been degassed.
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.
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 :

Store the packed products (drums, samples, cans ...) in properly ventilated rooms, away from damp, heat and any potential source of ignition.
Keep in closed and accurately labelled containers when not in use.

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

Technical measures :

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/m3, for 15 minutes
. oil mist : 5mg/m3, for 8 hours

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Respiratory protection :

Before falling back on using self-contained breathing apparatus, it is essential to ensure that it is technically impossible to use any other prevention solution. To enter tankers, tanks, reservoirs wear insulating respiratory apparatus. In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it is necessary to wear self-contained breathing apparatus. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

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.

Skin and body (other than the hands) protection :

When contacts with the product can happen, the safety clothings have to be often cleaned and renewed. Immediately remove all stained clothings and dry clean it. Face mask, boots, hydrocarbon-proof clothing, safety boots, as applicable.

Hygienic work practices :

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product.
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.
Do not eat, drink or smoke whilst handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :

Liquid at 20°C

Colour :

Yellow.

Odour :

Characteristic.

Density/specific gravity :

820 - 845 kg/m³
Temperature (°C) 15

Flash point :

> 55 °C (ISO 2719)

Température d'auto-inflammation :

> = 250 °C (ASTM E 659)

Comments on autoignition temperature :

This value may be significantly lower in the case of contact with potentially catalytic materials (metals like copper, strongly divided materials)

Flammability limit - lower(%) :

0,5

Flammability limit - upper(%) :

5

Comments on explosivity :

Explosive mixtures may form in contact with air.

Temperatures at phase change :

Initial distillation point: >= 150 °C
Distillation range within: ~ 150-380 °C

Vapour density :

> 5 (air=1)

Vapour pressure :

< 100 hPa / 10 hPa
Temperature (°C) 100 / 40

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Solubility :	- in water : Practically immiscible - in organic solvents : Soluble in many common solvents.
Partition coefficient (log Pow) :	3,9 - 6
Viscosity :	< 7 mm ² /s à 40°C
Further information :	- pH: not applicable - vapour pressure : negligible under normal temperature of handling.

10. STABILITY AND REACTIVITY

Stability :	The product is stable at normal storage, handling and use temperatures.
Conditions to avoid :	Heat, sparks, ignition points, flames, static electricity.
Materials to avoid :	Strong oxidising agents.
Hazardous decomp. products :	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:	The product has a low volatility at room temperature. Strong concentrations of vapour, mist or spray may be irritating for the respiratory tract and for mucous membranes with risk of headaches, dizziness and nausea.
Eye contact, comments:	Splashes in the eyes 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 :

Inhalation :	Vapour and spray may be irritating for the respiratory tract and for mucous membranes
Skin contact :	Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and may cause dermatosis.
Sensitization :	Does not generate sensitivity.
Carcinogenicity :	Possible risks of irreversible effects. Certain tests on animals have shown a development of malignant skin tumours.

12. ECOLOGICAL INFORMATION

Ecotoxicity :	Acute toxicity. LL50 96h fish 31 mg/l Acute toxicity. TLm 48 hours Crustacea 1,6 mg/l Acute toxicity. ILM 72 hours algae 20 mg/l
Comments about ecotoxicity :	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (CONCAWE recommendation).

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Mobility :

- Air:
Low volatility at room temperature.
In the air, hydrocarbons are photodegraded by reaction with hydroxyl radicals. Their half-lives is < 1 day.

- Soil:
The product may infiltrate the ground. But adsorption is the predominant physical process.
Absorbed hydrocarbons from this product will slowly degrade, both in water and soil.

- Water:
Very slightly soluble in water.
The product spreads on the surface of the water. For the lighter components, volatilisation is an important loss process. The polycyclic aromatics compounds are photooxidized.
In water, the majority of components of this product will be absorbed on sediments.

Bioaccumulation :

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

Persistence and degradability :

Not readily biodegradable
40% biodegradation in a 28-day test using the modified Sturm procedure.
Nevertheless, all components of this product are inherently biodegradable.

13. DISPOSAL CONSIDERATIONS

Regulation (EC) N° 1013/2006 of 14 June 2006 on shipments of waste.

Waste disposal :

The recommended method is recycling or incineration at an approved installation.

Waste class :

The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.

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) :

GASOIL

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) :

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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
Air (ICAO/IATA) :
Class : 3
Hazard Label(s) : 3
Packing Group : III
Special provisions : - ADR / RID / ADNR :
640L
UK Road Transport Class: 3
HAZCHEM code : 3/Y

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.
EU directives : Hazardous preparations directive 1999/45/EC modified.
Directive 67/548/EC modified by D. 2001/59/EC - Guide for classification and packaging.
*NATIONAL REGULATIONS : Regulation (EC) N° 1907/2006 REACH

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.



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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

Information sources :

CONCAWE : report 6/05 and 01/54
IUCLID Data set (2000).

*Revision date:

2008-06-16

*Supersedes the data sheet of:

2006-06-13

* 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.