

Safety Data Sheet

1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE

1.1 Product Identification

Substance	Fuels, diesel
Commercial Product Name	Marine Gasoil (0.1% sulphur)
Synonyms	MGO
CAS	68334-30-5
ECHA Registration No.	n/a

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

Specific Use(s) Fuel for use in marine diesel engines only

Exposure Scenario(s)

Uses Advised Against

Chemical Safety Report

1.3 Details of the supplier of the SDS

Company	Inver Energy Limited River House Blackpool Park Blackpool Cork, Ireland
Telephone No.	+353 (0)21 4396950
Email	inverinfo@greenergy.com

1.4 Emergency telephone number

Emergency telephone number	+44 1235 836 100	(NCEC)
Opening Hours	24/7	

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

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

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Acute Tox. 4 (Inhalation)	H332
Carc. 2	H351
Asp.Tox. 1	H304
STOT RE 2	H373
Aquatic Chronic 2	H411

For the full text of classification codes and/or H-phrases in this section, see section 2.2 below

2.2 Label elements

Labelling according to Regulation (EU) 1272/2008

CLP pictograms:



GHS02



GHS08



GHS07



GHS09

Signal word:	Danger
CLP Hazard statements:	H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H332 - Harmful if inhaled. H351 - Suspected of causing cancer H373 - May cause damage to organs through prolonged or repeated exposure H411 - Toxic to aquatic life with long lasting effects.

CLP Precautionary statements:	P260 - Do not breath dust/fumes/gas/mist/vapours/spray. P280 - Wear protective gloves. P273 - Avoid release to the environment P301+P310 - If swallowed, immediately call a doctor. P331 - Do NOT induce vomiting P403 + P235 – Store in a well ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point.
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Labelling according to Directives (67/548/EEC - 1999/45/EC)

Not relevant

Other Hazards

Not relevant

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Substance name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP / GHS]
Fuels, diesel	CAS no: 68334-30-5 EC no: 269-822-7 EC Index: 649-224-00-6	>93%	H226 - Flam. Liq. 3 H315 - Skin Irrit. 2 H332 - Acute Tox. 4 (Inhalation) H351 - Carc. 2 H373 - STOT RE 2 H411 - Aquatic Chronic 2 H304 - Asp.Tox. 1

For the full text of classification codes and/or H-phrases in this section, see section 2.2

3.2 Mixtures

Product may contain up to 7% (v/v) of C16-C18 Fatty acid methyl esters

Product contains up to 0.1% sulphur

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:	Keep at rest. Move to fresh air. Consult a physician if necessary.
Skin contact:	After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact:	Repeated exposure may cause skin dryness or cracking.
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.

4.3 Indication of immediate medical attention and special treatment needed

No data available

5.0 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: Combustible material

Specific hazards: 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, H₂S, SO_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 firefighting if necessary.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear personal protective equipment. See also section 8. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. 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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Dispose of in accordance with local regulations.

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Wear personal protective equipment. See also section 8 Always replace cap after use. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Do not store near or with any of the incompatible materials listed in section 10. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place.

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.

7.3 Specific end use(s)

Specific use(s): see Exposure scenarios

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component: Fuels, diesel (68334-30-5)
TLV-TWA (mg/m³): 100 (Belgium)
TLV-STEL (mg/m³): (mist) 10 (United Kingdom); 3 (Sweden)

DNEL: see Exposure scenarios
PNEC: see Exposure scenarios

8.2 Exposure controls

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: A (EN 141) Respirator with a half face mask (EN 140) Full face mask (EN 136)

Hand protection: Wear chemically resistant gloves tested for breakthrough time for gas oil in accordance with EN374. 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 (EN 166)

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	dyed red
Odour:	characteristic
pH:	not applicable
Boiling point/boiling range:	ca. 170 - 370 °C
Melting point/range:	no data available
Flash point:	ca. > 55 °C
Explosive properties:	no data available
Oxidizing properties:	no data available
Evaporation rate:	no data available
Vapour pressure:	~ < 1 kPa @ 20°C
Vapour density:	no data available
Solubility in other solvents:	slightly soluble (<20 mg/l, 20°C)
Viscosity:	2.0 – 4.5 mm/s ² @ 40°C
Density:	820 - 845 kg/m ³ @ 15°C
Partition coefficient:	~ > 3 (n-octanol/water)

9.2 Other information

No data available

10.0 STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity: Flammable liquid

See also section 10.5

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: Incompatible with strong acids and oxidizing agents. Bases

10.6 Hazardous decomposition products

Hazardous decomposition products: Burning produces noxious and toxic fumes. Possible decomposition products are: CO_x, H₂S, SO_x

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General Information

Acute toxicity

Component: Fuels, diesel (68334-30-5)

LD50/oral/rat: > 5000 mg/kg

Inhalation: May cause irritation of respiratory tract. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Skin contact: Repeated exposure may cause skin dryness or cracking. 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: Limited evidence of a carcinogenic effect.

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.

Component: Fuels, diesel (68334-30-5)

LC50/96h/fish: 54 mg/l (Jordanella floridae)

12.2 Persistence and degradability

Persistence and degradability: No information available.

12.3 Bioaccumulative potential

Bioaccumulation: May cause bioaccumulation.
Partition coefficient: ~ > 3 (n-octanol/water)

12.4 Mobility in soil

Mobility: slightly soluble

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: In accordance with local and national 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): The following Waste Codes are only suggestions: 130701 - fuel oil and diesel 150110 - packaging containing residues of or contaminated by dangerous substances Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

14.1 UN Number

UN number : 1202

14.2 UN proper shipping name

Proper shipping name : GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT

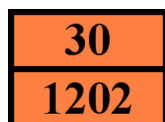
14.3 Transport hazard class(es)

14.3.1 Overland transport

Class: 3 - Flammable liquids
 Danger code: 30
 ADR classification code: F1
 ADR danger labels: 3 - Flammable liquid



Orange plates:



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

Inland waterway transport (ADN/ADNR)

ADNR class: 3

14.3.2 Transport by sea

Class: 3 - Flammable liquids
 EmS: F-E, S-E

14.3.3 Air transport

Class: 3 - Flammable liquids

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

15.0 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. National regulations

WGK: 3

15.2 Chemical Safety Assessment

Chemical Safety assessment: A Chemical Safety Assessment has been carried out for this substance.

16.0 OTHER INFORMATION

Updated sections: 24/7 Emergency number added provided through UK NCEC

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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