

Diesel (containing up to 7 Vol.-% FAME)

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation: Diesel (containing up to 7 Vol.-% FAME)

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

Specific use(s): Fuels

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company: Mabanaft Ltd
20th Floor, Portland House
Bressenden Place
SW1E 5BH-London
UNITED KINGDOM

Telephone:: +44 (0)20 7802 3300

Fax: +44 (0)20 7931 8353

E-mail: operations@mabanaft.co.uk

1.4 Emergency telephone number

OAMPS 24/7 Emergency Number: +44 (0)844 560 1124

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Flam. Liq. 3; H226

Asp. Tox. 1; H304

Skin Irrit. 2; H315

Acute Tox. 4 (Inhalation); H332

Carc. 2; H351

STOT RE 2; H373

Aquatic Chronic 2; H411

Full text of H-phrases: see section 16

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

Carc.Cat.3; R40

Xn; R20

Xn; R65

Xi; R38

N; R51/53

Full text of R-phrases: see section 16

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2.2 Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

CLP pictograms



GHS02



GHS08



GHS07



GHS09

Signal word: Danger

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.

Precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do NOT induce vomiting.

P501 - Dispose of contents/ container to an approved waste disposal plant.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Symbol(s)



Xn - Harmful



N - Dangerous
for the
environment

Contains

fuels, diesel

R-phrases

R20 - Harmful by inhalation.

R38 - Irritating to skin.

R40 - Limited evidence of a carcinogenic effect.

R65 - Harmful: may cause lung damage if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

S23 - Do not breathe vapour.

S24 - Avoid contact with skin.

S36/37 - Wear suitable protective clothing and gloves.

S51 - Use only in well-ventilated areas.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this

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container or label.

2.3 Other hazards

Results of PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Substance name | Product identifier | % | Classification according to Directive 67/548/EEC |
|------------------|--|-------|---|
| Fuel oil, no. -2 | (CAS No.) 68476-30-2 (EC No) 270-671-4 (EC Index) 649-225-00-1 (REACH-no) 01-2119475501-42-XXXX | < 100 | Xn; R20 Xi; R38 Carc.Cat.3; R40 Xn; R65 N; R51/53 |
| Fuels, diesel | (CAS No.) 68334-30-5 (EC No) 269-822-7 (EC Index) 649-224-00-6 (REACH-no) 01-2119484664-27-XXXX | < 100 | Carc.Cat.3; R40 Xn; R20 Xn; R65 Xi; R38 N; R51/53 |

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------|--|-------|--|
| Fuel oil, no. -2 | (CAS No.) 68476-30-2 (EC No) 270-671-4 (EC Index) 649-225-00-1 (REACH-no) 01-2119475501-42-XXXX | < 100 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Fuels, diesel | (CAS No.) 68334-30-5 (EC No) 269-822-7 (EC Index) 649-224-00-6 (REACH-no) 01-2119484664-27-XXXX | < 100 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Keep at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove person to fresh air. If signs/symptoms continue, get medical attention.

Skin contact: Take off immediately all contaminated clothing. Wash off with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion: Call a physician immediately. Do not induce vomiting. Provide fresh air. Keep at rest.

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Additional advice: First aider: Pay attention to self-protection! See also section 8 . Treat symptomatically. Show this safety data sheet to the doctor in attendance. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Harmful by inhalation. May cause irritation of respiratory tract. Effects of breathing high concentrations of vapour may include: headache, nausea, dizziness. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

Skin contact: Irritating to skin. The following symptoms may occur: Redness. Swelling of the skin. Hot product (liquid) can cause thermal burns.

Eye contact: May cause eye irritation. Hot product (liquid) can cause thermal burns.

Ingestion: Harmful: may cause lung damage if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

When in doubt or if symptoms are observed, get medical advice.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Extinguishing media which shall not be used for safety reasons: Strong water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Flammable liquids

Specific hazards: Temperature above flashpoint: higher fire/explosion hazard . Vapours can form explosive mixtures with air. Vapours are heavier than air and may spread along floors. In case of fire hazardous decomposition products may be produced such as: Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides, Hydrogen sulfide (H₂S) Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Container may explode if heated.

5.3 Advice for firefighters

Evacuate area. Special protective equipment for firefighters. In case of fire: Wear self-contained breathing apparatus. In the event of fire, cool tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Use personal protective equipment as required. See also section 8. Evacuate area. Provide adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep people away from and upwind of spill/leak. Avoid contact with skin and eyes. Do not breathe vapour/spray. Ensure all equipment is electrically grounded before beginning transfer operations. Vapours are heavier than air and may spread along floors. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

Advice for emergency responders: Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

Prevent product from entering drains.

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6.3 Methods and material for containment and cleaning up

Provide adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Collect and dispose of waste product at an authorised disposal facility. Pick up contaminated soil. After cleaning, flush away traces with water. Local authorities should be advised if significant spillages cannot be contained. Contaminated surfaces will be extremely slippery.

6.4 Reference to other sections

See also section 8. See also section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling: Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Use personal protective equipment as required. See also section 8. Do not breathe vapour/spray. Ensure all equipment is electrically grounded before beginning transfer operations. Use only non-sparking tools. Do not smoke. Heating can release hazardous gases. Take care to avoid waste and spillage when weighing, loading and mixing the product. Take any precaution to avoid mixing with incompatible materials. See also section 10. Vapours are heavier than air and may spread along floors. Vapours can form explosive mixtures with air.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/Store only in original container. Keep in a bunded area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not store near or with any of the incompatible materials listed in section 10. Keep away from food, drink and animal feedingstuffs.

Packaging material: metal containers

7.3 Specific end use(s)

Diesel fuel.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit(s)

| | |
|-------------------------------|--|
| Component: | Fuel oil, no. -2 (68476-30-2) |
| TLV-TWA (mg/m ³): | 100 (BE) |
| Component: | Fuels, diesel (68334-30-5) |
| TLV-TWA (mg/m ³): | 5 (NL, ES, FI, DK, NO); 1 (SE); 100 (BE) |

DNEL/DMEL (additional information)

PNEC (additional information)

Recommended monitoring procedures:

Concentration measurement in air. Personal monitoring

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8.2 Exposure controls

Personal protective equipment: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Respirator with a full face mask (EN 136), Respirator with a half face mask (EN 140), Recommended Filter type: A (EN 141).

Hand protection: Protective gloves (EN 374): 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 with side-shields (EN 166).

Skin and body protection: Overalls, apron and boots recommended. (EN 340).

Thermal hazard protection: Not required under normal use. Use dedicated equipment.

Engineering control measures: Provide sufficient air exchange and/or exhaust in work rooms. Ensure that eyewash stations and safety showers are close to the workstation location. Organisational measures to prevent /limit releases, dispersion and exposure . See also section 7

Environmental exposure controls: Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|-------------------------------------|
| Appearance: | liquid |
| Colour: | colourless,yellow |
| Odour: | characteristic |
| Odour Threshold: | No data available |
| Odour Threshold: | No data available |
| pH: | NA: UVCB |
| Melting point/range: | No data available |
| Boiling point/boiling range: | 150 - 390 °C |
| Flash point: | > 56 °C (CC PM) |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | (Not applicable),liquid |
| Explosion limits (LEL, UEL): | No data available |
| Vapour pressure: | No data available |
| Vapour density: | No data available |
| Relative density: | No data available |
| Water solubility: | Insoluble |
| Solubility in other solvents: | Organic solvent |
| Partition coefficient: n-octanol/water: | NA (UVCB) |
| Autoignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity: | 2 - 4,5 mm ² /s (@ 40°C) |
| Explosive properties: | Not applicable |
| Oxidizing properties: | Not applicable |

9.2 Other information

| | |
|-------------|-----------------|
| Other data: | Not applicable. |
|-------------|-----------------|

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SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour., See also section 10.5

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks. See also section 7, Handling and storage.

10.5 Incompatible materials

Strong oxidizing agents, Acids and bases . See also section 7, Handling and storage.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed. Burning produces noxious and toxic fumes. Possible decomposition products are: Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen sulfide (H₂S)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Harmful if inhaled.

LD50/oral/rat = 7600 mg/kg (OECD 401) (Gas oil)

LD50/dermal/rabbit = > 4300 mg/kg (OECD 434) (Gas oil)

LC50/inhalation/4h/rat = 4,1 mg/l/4h (OECD 404) (Gas oil)

Skin corrosion/irritation:

Causes skin irritation.

OECD Test Guideline 404 (Gas oil)

Serious eye damage/irritation:

Not classified (Based on available data, the classification criteria are not met.)

Respiratory/skin sensitisation:

Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity:

Suspected of causing cancer.

OECD Test Guideline 451 (Gas oil)

Reproductive toxicity:

Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (single exposure):

Not classified (Based on available data, the classification criteria are not met.)

Specific target organ toxicity (repeated exposure):

May cause damage to organs through prolonged or repeated exposure.

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Gas oil: Target Organs :

blood

liver

thymus

NOAEL (dermal, rat/rabbit, 90 days) : 30 mg/kg/d

NOAEL (dermal, rat/rabbit) : 0,5 ml/kg (28d)

NOAEL (inhalation, rat, dust/mist/fume, 90 days) : > 1710 mg/m³ (NOAEC)

Aspiration hazard:

May be fatal if swallowed and enters airways.

Further information:

Symptoms related to the physical, chemical and toxicological characteristics See section 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects:

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

12.2 Persistence and degradability

Not applicable

UVCB

12.3 Bioaccumulative potential

Not applicable

UVCB

12.4 Mobility in soil

UVCB

Not applicable

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: Handle with care. See also section 7 Where possible recycling is preferred to disposal or incineration. Collect and dispose of waste product at an authorised disposal facility. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging: Container hazardous when empty. Do not puncture or incinerate. Never use pressure to empty container. Do not burn, or use a cutting torch on, the empty drum. Dispose according to legislation.

Additional ecological information: Do not allow to enter into surface water or drains.

List of suggested waste codes/waste designations in accordance with the EWC: The following Waste Codes are only suggestions: 13 07 01* - fuel oil and diesel . Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14: Transport information

14.1 UN number

UN-No.: 1202

14.2 UN proper shipping name

Proper Shipping Name: GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT
Proper shipping name IATA/IMDG: GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT

14.3 Transport hazard class(es)

14.3.1. Overland transport (ADR/RID)

Class: 3 - Flammable liquid
Hazard identification number (Kemler No.): 30
Classification code: F1
ADR/RID-Labels: 3 - Flammable liquid



14.3.2. Inland waterway transport (ADN)

ADN: Hazards : 3+(N2+F)
Class (UN): 3

14.3.3. Transport by sea (IMDG)

Class: 3 - Flammable liquids

14.3.4. Air transport (IATA)

Class: 3 - Flammable liquids

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmental hazards:



Other information: ADN : N2.

14.6 Special precautions for user

no data available.

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

Code: IBC: no data available.

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Restrictions on use: Annex XVII: 3

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.: none

Authorisations Not applicable

15.1.2. National regulations

WGK: 2

German storage class (LGK): LGK 3B - Flammable liquids

TA-Luft: Organic Substances

Technische Regeln für Gefahrstoffe (TRGS): applicable, TRGS 001 TRGS 900

Risk classification according to VbF: A III - Liquids with a flashpoint above 55°C up to 100°C

ABM: 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NeR (Nederlandse emissie Richtlijn): Organic substances in vapour or gaseous form

15.2 Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
68334-30-5 / 68476-30-2

SECTION 16: Other information

Issuing date: 15/March/201

Revision nr: 3

Supersedes: 08/July/2013

Safety datasheet sections which have been updated:

1

Full text of R-, H- and EUH-phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - chronic hazard category 2 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 2 | Carcinogenicity Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| 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. |
| R20 | Harmful by inhalation. |
| R38 | Irritating to skin. |

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| | |
|--------|---|
| R40 | Limited evidence of a carcinogenic effect. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R65 | Harmful: may cause lung damage if swallowed. |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

Sources of key data used to compile the Safety Data Sheet

European Chemicals Bureau: <http://ecb.jrc.it>;
CONCAWE C&L guidance (report no. 11/10R);

Further information

Not applicable

Abbreviations and acronyms

ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
PNEC = Predicted No Effect Concentration
DNEL = Derived No Effect Level
NA = not applicable
NOAEL = No observed adverse effect level
DMEL = Derived minimal effect level
NOEL = No-observed-effect level
UVCB = Substance of unknown or variable composition, complex reaction products or biological material (UVCB)
ABM = Algemene beoordelingsmethodiek

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