



SAFETY DATA SHEET

Gas oil (1000ppm sulphur)



Xn : Harmful



N : Dangerous for the environment

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

Commercial Product Name : Gas oil (1000ppm sulphur)
Use of the Substance/Mixture : Fuel
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2 HAZARDS IDENTIFICATION

Most important hazards : The product is classified as dangerous in accordance with Directive 67/548/EEC.
Repeated exposure may cause skin dryness or cracking.
Harmful: may cause lung damage if swallowed.
Limited evidence of a carcinogenic effect.

Main symptoms

Inhalation : May cause irritation of respiratory tract.

Skin contact : Repeated exposure may cause skin dryness or cracking.

Eye contact : May be irritating.

Ingestion : May cause lung damage if swallowed.

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	Value(s)	CAS No	EC No	EC Index	CERTIFICATE
Fuel oil, no. -2	100 %	68476-30-2	270-671-4	649-225-00-1	R40 Xn; R65 R66 N; R51-53

Full text of R-phrases : See section 16.



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4. FIRST AID MEASURES

First aid measures

Inhalation

- : Keep at rest.
- Move to fresh air.
- Consult a physician if necessary.
- : *Inhalation may provoke the following symptoms:*
- : May cause irritation of respiratory tract.

Skin contact

- : After contact with skin, wash immediately with plenty of soap and water.
- If skin irritation persists, call a physician.
- : *Skin contact may provoke the following symptoms:*

Eye contact

- : May be irritating.
- : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Obtain medical attention.
- : *Eye contact may provoke the following symptoms:*

Ingestion

- : May be irritating.
- : Do NOT induce vomiting.
- Rinse mouth.
- Drink plenty of water.
- Obtain medical attention.
- : *Ingestion may provoke the following symptoms:*

Additional advice

- : May cause lung damage if swallowed.
 - : Never give anything by mouth to an unconscious person.
 - Show this safety data sheet to the doctor in attendance.
 - Treat symptomatically.
-

5. FIRE-FIGHTING MEASURES

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

Specific hazards

- : Possible decomposition products are: CO_x, H₂S, SO_x
- Vapours may form explosive mixture with air.
- Vapours are heavier than air and may spread along floors.
- Flash back possible over considerable distance.
- Cool containers / tanks with water spray.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Specific methods

- : Wear personal protective equipment.
 - Wear self contained breathing apparatus for fire fighting if necessary.
-

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

- : See also section 8.
 - Wear personal protective equipment.
 - Evacuate personnel to safe areas.
 - Avoid contact with skin, eyes and clothing.
 - Do not breathe vapours or spray mist.
 - Keep away from open flames, hot surfaces and sources of ignition.
 - Ensure all equipment is electrically grounded before beginning transfer operations.
 - Vapours are heavier than air and may spread along floors.
 - Flash back possible over considerable distance.
 - Vapours may form explosive mixture with air.
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6. ACCIDENTAL RELEASE MEASURES (continued)

- Environmental precautions** : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal.
After cleaning, flush away traces with water.
Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

- 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.
- Handling** : See also section 8.
Wear personal protective equipment.
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 feedingstuffs.
Handle in accordance with good industrial hygiene and safety practice.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Do not burn, or use a cutting torch on, the empty drum.
Ensure all equipment is electrically grounded before beginning transfer operations.
- Specific use(s)** : Fuel

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal protective equipment**
- Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment. (type A1/A2/A3/P2; EN 141/136/140/137/143)
- Hand protection** : Rubber gloves (EN 374) - PVC disposable gloves - Nitrile rubber
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 gloves supplier.
- Eye protection** : Safety glasses (EN 166)
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.
Use only in area provided with appropriate exhaust ventilation.
- Exposure limit(s)** : Fuel oil, no. -2 : TLV-TWA (mg/m³) : (mist) 5 (Belgium, United Kingdom, France, the Netherlands, Spain, Finland, Denmark, Norway); 1 (Sweden); 250 (UT4, Kraftstoff, Germany)
Fuel oil, no. -2 : TLV-STEL (mg/m³) : (mist) 10 (Belgium, United Kingdom); 3 (Sweden)

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : liquid
- Colour** : colourless - yellow - red
- Odour** : characteristic
- pH** : not applicable



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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Boiling point/boiling range	: 160 - 390°C
Melting point/range	: no data available
Flash point	: > 55°C
Evaporation rate	: no data available
Vapour density	: no data available
Autoignition temperature	: ca 220°C
Explosive properties	: 0,6 - 6,5 Vol%
Oxidizing properties	: no data available
Vapour pressure	: 4,05 mbar (20°C)
Viscosity	: max 6,00 mm ² /s
Partition coefficient: n-octanol/water	: ca 3,9 - 6
Solubility	: slightly soluble
Density	: max. 860 kg/m ³ (15°C)

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Hazardous decomposition products	: Carbon oxides
Materials to avoid	: Incompatible with strong acids and oxidizing agents. Bases
Conditions to avoid	: Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: • Fuel oil, no. -2 : LD50/oral/rat = : > 5000 mg/kg • Fuel oil, no. -2 : LD50/dermal/rabbit = : > 2000 mg/kg • Fuel oil, no. -2 : LC50/inhalation/4h/rat = : 4,6 mg/l
Inhalation	: May cause irritation of respiratory tract.
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. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.
Chronic toxicity	: Limited evidence of a carcinogenic effect.

12. ECOLOGICAL INFORMATION

Bioaccumulation	: log Pow = 3.9 - 6 May cause bioaccumulation.
Ecotoxicity effects	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. • Fuel oil, no. -2 : LC50/96h/fish : 54 mg/l (Jordanella floridae)
Mobility	: slightly soluble
Persistence and degradability	: Not readily biodegradable.



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13. DISPOSAL CONSIDERATIONS

- Contaminated packaging** : If recycling is not practicable, dispose of in compliance with local regulations.
- Codes of waste (2001/573/EC, 75/442/EEC, 91/689/EEC)** : The following Waste Codes are only suggestions:
13 07 01* - fuel oil and diesel
15 01 10* - 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

Class



ADR/RID

- UN-Number** : 1202
Proper shipping name : GAS OIL
Class : 3
Packing group : III
- IMDG**
- UN-Number** : 1202
Class : 3
Packing group : III
Proper shipping name : GAS OIL
EmS : F-E; S-E
- ICAO**
- UN-Number** : 1202
Class : 3
Packing group : III
Proper shipping name : GAS OIL

15. REGULATORY INFORMATION

- Labelling** : The product is classified as dangerous in accordance with Directive 67/548/EEC. EINECS: 270-671-4
- Symbol(s)** : N - Dangerous for the environment
Xn - Harmful
- R-phrases(s)** : 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.
R66 - Repeated exposure may cause skin dryness or cracking.
- S-phrase(s)** : S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.



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15. REGULATORY INFORMATION (continued)

Contains : Fuel oil, no. -2
WGK : 2

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3 : 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.
R66 - Repeated exposure may cause skin dryness or cracking.

Sources of key data used to compile the Safety Data Sheet : European Chemicals Bureau : ecb.jrc.it
CONCAWE (July 2005)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 1967/548/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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