# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## MARINE GAS OEL nach DIN ISO 8217, Dichte 0,86 g/cm3



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

### 1.1. Product identifier

MARINE GAS OEL nach DIN ISO 8217, Dichte 0,86 g/cm3

UFI: KV2V-J2HN-QX0V-JTKJ

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

**Use of the substance/mixture**

Product Categories [PC]: PC 13 Fuels.

### 1.3. Details of the supplier of the safety data sheet

| | | | |
|---|---|---|---|
| Company name: | Wilhelm Hoyer B.V. & Co. KG | | |
| Street: | Rudolf-Diesel-Straße 1 | | |
| Place: | D-27374 Visselhövede | | |
| Telephone: | +49 (4262) 797 | Telefax: | +49 (4262) 4040 |
| E-mail: | sicherheitsdatenblatt@hoyer-energie.de | | |
| Contact person: | Technical Service | Telephone: | +49 (4262) 79 9603 |
| Responsible Department: | Technical Service | | |

### 1.4. Emergency telephone number:

+49 (551) 19240
Giftinformationszentrum - Nord

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

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

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

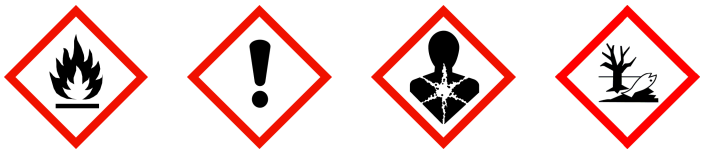
**Regulation (EC) No 1272/2008**

**Hazard components for labelling**

Fuel oil, No 2, Gasoil - unspecified

**Signal word:** Danger

**Pictograms:**



**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**

| | |
|---|---|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection/face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P391 | Collect spillage. |
| P370+P378 | In case of fire: Use Water mist, Foam, Dry extinguishing powder, Carbon dioxide (CO2) to extinguish. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

### 2.3. Other hazards

This substance does not meet the criteria for classification as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Hazardous components**

| CAS No | Chemical name | | | Quantity |
|---|---|---|---|---|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 68476-30-2 | Fuel oil, No 2, Gasoil - unspecified | | | 100 % |
| | 270-671-4 | | 01-2119475501-42 | |
| | Flam. Liq. 3, Carc. 2, Acute Tox. 4, Skin Irrit. 2, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H226 H351 H332 H315 H373 H304 H411 | | | |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No | EC No | Chemical name | Quantity |
|---|---|---|---|
| | Specific Conc. Limits, M-factors and ATE | | |
| 68476-30-2 | 270-671-4 | Fuel oil, No 2, Gasoil - unspecified | 100 % |
| | inhalation: LC50 = 4100 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg | | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

First aider: Pay attention to self-protection!
Move victim out of danger zone.
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim is at risk of losing consciousness, position and transport on their side.
In case of irregular breathing or respiratory arrest provide artificial respiration. Where appropriate artificial ventilation. Call a physician immediately.

**After contact with skin**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. After cleaning apply high-fat content skin care cream.
In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Provide fresh air. Rinse mouth immediately and drink plenty of water.
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

Headache, Dizziness, Dizziness, Inebriation, Dyspnoea, Impaired consciousness, Vomiting.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure.
In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.3. Indication of any immediate medical attention and special treatment needed

Warning after ingestion: Caution if victim vomits: Risk of aspiration! Subsequent observance for pneumonia and lung oedema.
First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Extinguishing powder, Dry extinguishing powder , Foam, Carbon dioxide (CO2), Water fog.
Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.
In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide.

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**General advice**

Remove persons to safety. Do not breathe vapour/aerosol. Provide adequate ventilation.
In case of leakage, eliminate all ignition sources. Use non-sparking tools.
Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

**Other information**

Prevent spread over a wide area (e.g. by containment or oil barriers).
Remove from the water surface (e.g. skimming, sucking).
High slip hazard because of leaking or spilled product.
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Personal protection equipment: refer to chapter 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Do not breathe vapour/aerosol. Provide adequate ventilation as well as local exhaustion at critical locations.
Avoid contact with skin and eyes. Take off immediately all contaminated clothing. For industrial purposes only.

**Advice on protection against fire and explosion**

Flammable liquid and vapour.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Vapours are heavier than air and will spread at floor level. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

**Advice on general occupational hygiene**

Do not eat, drink, smoke or sneeze at the workplace.
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.
Take off contaminated clothing and wash it before reuse.
Protect skin by using skin protective cream.
Wash hands before breaks and after work.
After cleaning apply high-fat content skin care cream.
Do not put any product-impregnated cleaning rags into your trouser pockets.
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

**Further information on handling**

Ground and bond container and receiving equipment.
Use non-sparking tools.
Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.
Only use containers specifically approved for the substance/product.
Keep container tightly closed in a cool, well-ventilated place.
Always close containers tightly after the removal of product.
Recommended storage temperature: 5 - 30 °C.

**Hints on joint storage**

Do not store together with: Oxidising agent,
Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Protect against: Heat, Light, Frost, moisture. Protect from direct sunlight.

### 7.3. Specific end use(s)

Fuels.

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Additional advice on limit values**

Air limit values:

Limit value type (country of origin): US-OSHA PEL-Value: 5 mg/m³

Limit value type (country of origin): ACGIH STEL-Value: 10 mg/m³

### 8.2. Exposure controls

**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses. (EN 166)

**Hand protection**

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN 420, EN ISO 374.

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber).

Unsuitable material: Textile material.

Required properties: liquid-tight.

penetration time (maximum wearing period): > 480 min.

Thickness of glove material: 0,4 mm

Before using check leak tightness / impermeability.

**Skin protection**

Handling larger quantities: Wear suitable protective clothing.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist generation.

Suitable respiratory protective equipment: A gas filtering equipment (EN 141). AP Combination filter device (DIN EN 141)..

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | liquid |
| Colour: | light brown |
| Odour: | characteristic |

| | Test method |
|---|---|
| **Changes in the physical state** | |
| Melting point/freezing point: | No data available. |
| Boiling point or initial boiling point and boiling range: | approx. 160 - 400 °C |

| | | |
|---|---|---|
| Flash point: | > 55 °C | ASTM D 93 |

**Explosive properties**

In use may form flammable/explosive vapour-air mixture.

| | | |
|---|---|---|
| Lower explosion limits: | approx. 0,6 vol. % | |
| Upper explosion limits: | approx. 6,5 vol. % | |
| Auto-ignition temperature: | 220 °C | ASTM E 659-78 |
| pH-Value: | not applicable | |
| Viscosity / kinematic: (at 40 °C) | approx. 2,0 - 4,5 mm²/s | |
| Partition coefficient n-octanol/water: | Log KOW > 3 | |
| Vapour pressure: (at 38 °C) | 550 - 650 hPa | |
| Density (at 15 °C): | 0,86 g/cm³ | |
| Relative vapour density: | > 3 | |

### 9.2. Other information

**Information with regard to physical hazard classes**

Oxidizing properties

No data available.

**Other safety characteristics**

**Further Information**

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

In use may form flammable/explosive vapour-air mixture.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong acid, Strong alkali, Oxidising agent, strong.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide, Sulphur dioxide (SO2) .

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Toxicocinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Harmful if inhaled.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 15,71 mg/l; ATE (inhalation dust/mist) 2,143 mg/l

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Exposure route | Dose | | Species | Source | Method |
| 68476-30-2 | Fuel oil, No 2, Gasoil - unspecified | | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | | OECD 401 |
| | dermal | LD50 mg/kg | > 5000 | Rabbit | | |
| | inhalation (4 h) vapour | LC50 mg/l | 4100 | Rat | | OECD 403 |
| | inhalation dust/mist | ATE | 1,5 mg/l | | | |

**Irritation and corrosivity**

Irritant effect on the skin: Causes skin irritation.

Irritant effect on the eye: slightly irritant but not relevant for classification.

**Sensitising effects**

Respiratory or skin sensitisation: not sensitising. No known symptoms to date.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (Fuel oil, No 2, Gasoil - unspecified)

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Fuel oil, No 2, Gasoil - unspecified)

**Aspiration hazard**

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

**Endocrine disrupting properties**

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria).

### 12.3. Bioaccumulative potential

Log KOW > 3.

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

### 12.4. Mobility in soil

Physical state at 20 °C and 101.3 kPa: liquid.

If product enters soil, it will be mobile and may contaminate groundwater

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Discharge into the environment must be avoided.
Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Do not allow to enter into surface water or drains.
Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".
Dispose of waste according to applicable legislation.
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.
Consult the local waste disposal expert about waste disposal.

**List of Wastes Code - residues/unused products**

130701 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); wastes of liquid fuels; fuel oil and diesel; hazardous waste

**List of Wastes Code - used product**

130701 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); wastes of liquid fuels; fuel oil and diesel; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1202 |
| **14.2. UN proper shipping name:** | GAS OIL |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |


| | |
|---|---|
| Classification code: | F1 |
| Special Provisions: | 640L ADR664 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

| | |
|---|---|
| Transport category: | 3 |
| Hazard No: | 30 |
| Tunnel restriction code: | D/E |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1202 |
| **14.2. UN proper shipping name:** | GAS OIL |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |


| | |
|---|---|
| Classification code: | F1 |
| Special Provisions: | 640L |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1202 |
| **14.2. UN proper shipping name:** | GAS OIL |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |


| | |
|---|---|
| Special Provisions: | - |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| EmS: | F-E, S-E |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number or ID number:** | UN 1202 |
| **14.2. UN proper shipping name:** | GAS OIL |
| **14.3. Transport hazard class(es):** | 3 |
| **14.4. Packing group:** | III |
| Hazard label: | 3 |


| | |
|---|---|
| Special Provisions: | A3 |
| Limited quantity Passenger: | 10 L |
| Passenger LQ: | Y344 |
| Excepted quantity: | E1 |
| IATA-packing instructions - Passenger: | 355 |
| IATA-max. quantity - Passenger: | 60 L |
| IATA-packing instructions - Cargo: | 366 |
| IATA-max. quantity - Cargo: | 220 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: GAS OIL

**14.6. Special precautions for user**

Handling (Transport information): See protective measures under point 7 and 8.

**14.7. Maritime transport in bulk according to IMO instruments**

MARPOL Anlage I.

## SECTION 15: Regulatory information

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): 34 Petroleum products and alternative fuels (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams) (-)

**Additional information**

Safety Data Sheet according to Regulation (EC) No 1907/2006 (amended by Regulation (EU) No 2020/878)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

Restricted to professional users.

The receiver of our product is singularly responsible for adhering to existing laws and regulations. Observe in addition any national regulations!

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 2,3,4,5,8,9,10,11,12,15,16.

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification | Classification procedure |
|---|---|
| Flam. Liq. 3; H226 | On basis of test data |
| Acute Tox. 4; H332 | Calculation method |
| Asp. Tox. 1; H304 | Calculation method |
| Skin Irrit. 2; H315 | Calculation method |
| Carc. 2; H351 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

**Relevant H and EUH statements (number and full text)**

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. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*