

# SAFETY DATA SHEET

## Gasoil Heating



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

#### 1.1 Product identifier

**Product name** : Gasoil Heating  
**Viscosity or Type** : NBN T 52-716 Gasoil type B, Heating oil

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

**Material uses** : Home heating fuel

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

**Manufacturer / Distributor** : Kuwait Petroleum (Belgium) N.V.  
Brusselstraat 59 - Bus 1  
2018, Antwerp, Belgium  
Tel. +32 3 241 33 00, Fax +32 3 241 35 31

**e-mail address of person responsible for this SDS** : SDSinfo@Q8.com, communication preferably in English only.

#### 1.4 Emergency telephone number

**Europe** : +44 (0) 1235 239 670  
**Global (English only)** : +44 (0) 1865 407 333



### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

|  |            |      |
|--|------------|------|
| FLAMMABLE LIQUIDS                                  | Category 3 | H226 |
| ACUTE TOXICITY (inhalation)                        | Category 4 | H332 |
| SKIN CORROSION/IRRITATION                          | Category 2 | H315 |
| CARCINOGENICITY                                    | Category 2 | H351 |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) | Category 2 | H373 |
| ASPIRATION HAZARD                                  | Category 1 | H304 |
| AQUATIC HAZARD (LONG-TERM)                         | Category 2 | H411 |

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : None.

**Ingredients of unknown ecotoxicity** : None.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** :



## SECTION 2: Hazards identification

- Signal word** : Danger
- Hazard statements** : H226 - Flammable liquid and vapor.  
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**
- Prevention** : P201 - Obtain special instructions before use.  
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.  
P260 - Do not breathe vapor.  
P264 - Wash thoroughly after handling.
- Response** : P391 - Collect spillage.  
P308 + P313 - IF exposed or concerned: Get medical advice or attention.  
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331 - Do NOT induce vomiting.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.
- Storage** : Not applicable.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : Fuels, diesel
- Supplemental label elements** : Not applicable.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.
- Special packaging requirements**
- Containers to be fitted with child-resistant fastenings** : Not applicable.
- Tactile warning of danger** : Not applicable.
- 2.3 Other hazards**
- Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Other hazards which do not result in classification** : Hazardous concentrations of hydrogen sulphide (H<sub>2</sub>S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas.

Gasoil Heating

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers   | %   | Regulation (EC) No. 1272/2008 [CLP]  | Type | Notes |
|-------------------------|---|-----|--|------|-------|
| Fuels, diesel           | REACH #:<br>01-2119484664-27<br>EC: 269-822-7<br>CAS: 68334-30-5<br>Index: 649-224-00-6 | ≥90 | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Carc. 2, H351 (dermal)<br>STOT RE 2, H373<br>(dermal, inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2,<br>H411<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1]  | H-N   |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure to hydrogen sulphide is suspected or cannot be excluded, obtain medical attention IMMEDIATELY. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
Hydrogen sulphide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Hazardous concentrations of hydrogen sulphide (H<sub>2</sub>S) gas may accumulate in the vapour space of storage vessels. Standard procedures for opening or entering tanks, vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic gas.

Gasoil Heating

## SECTION 7: Handling and storage

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Provide adequate ventilation. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

| Category  | Notification and MAPP threshold | Safety report threshold  |
|-----------|---------------------------------|--------------------------|
| P5c<br>E2 | 5000 tonne<br>200 tonne         | 50000 tonne<br>500 tonne |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

| Product/ingredient name | Type | Exposure              | Value                    | Population         | Effects  |
|-------------------------|------|-----------------------|--------------------------|--------------------|----------|
| Fuels, diesel           | DNEL | Short term Inhalation | 0.1027 µg/m <sup>3</sup> | Workers            | Systemic |
|                         | DNEL | Short term Dermal     | 5.55 mg/kg bw/day        | General population | Systemic |
|                         | DNEL | Short term Dermal     | 11.11 mg/kg bw/day       | Workers            | Systemic |

#### PNECs

## SECTION 8: Exposure controls/personal protection

No PNECs available.

### 8.2 Exposure controls

#### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Product may release hydrogen sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water and unintentional releases should be made to help determine controls appropriate to local circumstances.

#### Individual protection measures

##### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

##### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm.

##### Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

##### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2.

##### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|  |   |
|--|---|
| Physical state                               | : Liquid. [Oily liquid.]  |
| Appearance                                   | : Clear.  |
| Color  | : Red. [Light]  |
| Odor   | : Characteristic.   |
| Odor threshold                               | : Not available.  |
| pH   | : 7   |
| Melting point/freezing point                 | : <0°C  |
| Initial boiling point and boiling range      | : 150 to 390°C  |
| Flash point                                  | : Closed cup: >55°C [ASTM D93.]   |
| Evaporation rate                             | : Not available.  |
| Flammability (solid, gas)                    | : Not applicable.   |
| Upper/lower flammability or explosive limits | : Lower: 1%<br>Upper: 6%  |
| Vapor pressure                               | : 0.4 kPa [room temperature]  |
| Vapor density                                | : Not available.  |
| Density                                      | : 0.81 to 0.86 g/cm <sup>3</sup> [15°C]   |
| Solubility(ies)                              | : Insoluble in the following materials: cold water and hot water.   |
| Dispersibility properties                    | : Very slightly dispersible in the following materials: hot water.<br>Not dispersible in the following materials: cold water. |
| Partition coefficient: n-octanol/ water      | : 3 to 6  |
| Auto-ignition temperature                    | : >225°C  |
| Decomposition temperature                    | : >225°C  |
| Viscosity (40°C)                             | : <5 cSt  |
| Explosive properties                         | : Not applicable.   |
| Oxidizing properties                         | : Not applicable.   |

### 9.2 Other information

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| 10.1 Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| 10.2 Chemical stability                 | : The product is stable.  |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| 10.4 Conditions to avoid                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 10.5 Incompatible materials             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |
| 10.6 Hazardous decomposition products   | : Decomposition products may include the following materials: sulfur oxides<br>Hydrogen sulphide  |



Gasoil Heating

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                          | Species | Dose       | Exposure |
|-------------------------|---------------------------------|---------|------------|----------|
| Fuels, diesel           | LC50 Inhalation Dusts and mists | Rat     | 4.1 mg/l   | 4 hours  |
|                         | LD50 Oral                       | Rat     | 7500 mg/kg | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Gasoil Heating          | N/A          | N/A            | N/A                      | 11.6                       | N/A                                 |
| Fuels, diesel           | 7500         | N/A            | N/A                      | 11                         | N/A                                 |

#### Irritation/Corrosion

| Product/ingredient name | Result                 | Species | Score | Exposure        | Observation |
|-------------------------|------------------------|---------|-------|-----------------|-------------|
| Fuels, diesel           | Skin - Severe irritant | Rabbit  | -     | 24 hours 500 UI | -           |
|                         | Skin - Severe irritant | Rabbit  | -     | 240 hours 80 gm | -           |

**Conclusion/Summary** : Not available.

#### Sensitization

**Conclusion/Summary** : Not available.

#### Mutagenicity

| Product/ingredient name | Test                                | Experiment                      | Result   |
|-------------------------|-------------------------------------|---------------------------------|----------|
| Fuels, diesel           | 471 Bacterial Reverse Mutation Test | Subject: Bacteria<br>Cell: Germ | Positive |

**Conclusion/Summary** : Not available.

#### Carcinogenicity

| Product/ingredient name | Result                 | Species    | Dose     | Exposure |
|-------------------------|------------------------|------------|----------|----------|
| Fuels, diesel           | Positive - Dermal - TC | Rat - Male | 25 µg/kg | -        |

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose              | Exposure                 |
|-------------------------|-------------------|-----------|---------------------|---------|-------------------|--------------------------|
| Fuels, diesel           | Positive          | -         | Positive            | Rat     | Dermal: 125 mg/kg | 20 days; 7 days per week |

**Conclusion/Summary** : Not available.

#### Teratogenicity

| Product/ingredient name | Result            | Species    | Dose      | Exposure                 |
|-------------------------|-------------------|------------|-----------|--------------------------|
| Fuels, diesel           | Positive - Dermal | Rat - Male | 125 mg/kg | 20 days; 7 days per week |

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Gasoil Heating

## SECTION 11: Toxicological information

| Product/ingredient name | Category   | Route of exposure  | Target organs |
|-------------------------|------------|--------------------|---------------|
| Fuels, diesel           | Category 2 | dermal, inhalation | -             |

### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| Fuels, diesel           | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Harmful if inhaled.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

| Product/ingredient name | Result                                      | Species            | Dose                  | Exposure                 |
|-------------------------|---|--------------------|-----------------------|--------------------------|
| Fuels, diesel           | Sub-chronic NOAEL Dermal                    | Rat - Male, Female | 30 mg/kg              | 90 days; 5 days per week |
|                         | Sub-chronic NOEL Inhalation Dusts and mists | Rat - Male, Female | 750 mg/m <sup>3</sup> | 90 days                  |

**Conclusion/Summary** : Not available.  
**General** : May cause damage to organs through prolonged or repeated exposure.  
**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.

Gasoil Heating

## SECTION 11: Toxicological information

**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result  | Species         | Exposure             |
|-------------------------|---|-----------------|----------------------|
| Fuels, diesel           | Acute EC50 210 mg/l Fresh water<br>Acute EC50 65 mg/l Fresh water | Daphnia<br>Fish | 48 hours<br>96 hours |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name | Test   | Result                   | Dose | Inoculum |
|-------------------------|--|--------------------------|------|----------|
| Fuels, diesel           | 301E Ready Biodegradability - Modified OECD Screening Test | 60 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Fuels, diesel           | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Gasoil Heating          | 3 to 6             | -   | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**European waste catalogue (EWC)**

Gasoil Heating





## SECTION 13: Disposal considerations

| Waste code | Waste designation   |
|------------|---------------------|
| 13 07 01*  | fuel oil and diesel |

### Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID  | ADN  | IMDG  | IATA   |
|---------------------------------|--|--|---|--|
| 14.1 UN number                  | UN1202   | UN1202   | UN1202  | UN1202   |
| 14.2 UN proper shipping name    | GAS OIL  | GAS OIL  | GAS OIL   | Gas oil  |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III  | III  | III   | III  |
| 14.5 Environmental hazards      | Yes.   | Yes.   | Yes.  | Yes. The environmentally hazardous substance mark is not required.                         |

### Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Hazard identification number** 30  
**Limited quantity** 5 L  
**Special provisions** 640L, 363  
**Tunnel code** (D/E)
- ADN** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Special provisions** 363, 640L
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Emergency schedules** F-E, S-E  
**Special provisions** 363
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.  
**Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.  
**Special provisions** A3

- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Gasoil Heating

## SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

## SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

**Category**

P5c  
E2

National regulations

Hazard class for water (WGK) : 2

VOC content : VOC (w/w): 95%

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Gasoil Heating

## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : All components are listed or exempted.   |
| <b>Canada</b>            | : All components are listed or exempted.   |
| <b>China</b>             | : All components are listed or exempted.   |
| <b>Europe</b>            | : All components are listed or exempted.   |
| <b>Japan</b>             | : <b>Japan inventory (ENCS)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>       | : All components are listed or exempted.   |
| <b>Philippines</b>       | : All components are listed or exempted.   |
| <b>Republic of Korea</b> | : All components are listed or exempted.   |
| <b>Taiwan</b>            | : All components are listed or exempted.   |
| <b>Thailand</b>          | : Not determined.  |
| <b>Turkey</b>            | : All components are listed or exempted.   |
| <b>United States</b>     | : All components are active or exempted.   |
| <b>Viet Nam</b>          | : All components are listed or exempted.   |

**15.2 Chemical Safety Assessment** : Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification          | Justification      |
|-------------------------|--------------------|
| Flam. Liq. 3, H226      | Expert judgment    |
| Acute Tox. 4, H332      | Calculation method |
| Skin Irrit. 2, H315     | Calculation method |
| Carc. 2, H351           | Calculation method |
| STOT RE 2, H373         | Calculation method |
| Asp. Tox. 1, H304       | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

### Full text of abbreviated H statements

Gasoil Heating

## SECTION 16: Other information

|      |  |
|------|--|
| H226 | Flammable liquid and vapor.  |
| 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.                   |

### Full text of classifications [CLP/GHS]

|                   |   |
|-------------------|---|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Chronic 2 | AQUATIC HAZARD (LONG-TERM) - 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 |

|  |  |
|--|--|
| <b>Training advice</b>                 | : Ensure operatives are trained to minimise exposures.         |
| <b>Date of printing</b>                | : 09-04-2020   |
| <b>Date of issue/ Date of revision</b> | : 09-04-2020   |
| <b>Date of previous issue</b>          | : No previous validation                                       |
| <b>Version</b>                         | : 1  |
| <b>Prepared by</b>                     | : Kuwait Petroleum Research & Technology B.V., The Netherlands |

### Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.