

# SAFETY DATA SHEET



## Heating Oil/Diesel Fuel/Gas Oil

Revision date: 29.04.2008

### 1. IDENTIFICATION OF THE PRODUCT AND COMPANY

**Chemical name** Heating Oil/Diesel Fuel/Gas Oil  
**Product type** VF  
**Revision date** 29.04.2008  
**Chemical name** Gasoil  
**Company** PREEM PETROLEUM AB  
Sandhamnsgatan 51  
115 90 Stockholm  
Tlf: 08-450 10 00 Fax: 08-660 90 21 Jourtelefon : GIC: 08-33 12 31, SOS 112  
**Emergency nr** GIC: 08-33 12 31, SOS 112  
**Article-no** VF030ENG  
**Application** Gas oil.  
**Author** Helena Nordholm

### 2. HAZARD IDENTIFICATION

**Risk symbols**



**Risk description**

Possible risk of irreversible effects. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION

Ingredients	EC-nr.	CAS-nr.	Weight-%	Class.	R-phrases
Fuels,diesel	269-822-7	68334-30-5	>99	Xn,N	40-65-66-51/53

**Explanation**

R-phrases with full text is found in section 16. Tx=Very Toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritating, IK=No classification required, E=Explosive, O=Oxidizing, Fx=Extremely flammable, F=Highly flammable, N=Dangerous for the environment.

**Ingredients comments**

According to Swedish regulations the product is classified as a flammable liquid category 3 (flash point > 55-100 °C). If so ordered the product can be dyed green according to Swedish tax-regulations.



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### 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove to fresh air. If the casualty is not breathing give assisted respiration by the mouth-to-mouth method. If the casualty is unconscious but breathing place in the recovery position. If necessary give external cardiac massage and obtain medical advice.
<b>Skin contact</b>	Wash the skin with soap and water. Take off contaminated clothing. If redness, pain or swelling occurs - seek medical attention. If the product may have been injected through the skin under high pressure - take to hospital immediately.
<b>Eye contact</b>	Wash eye thoroughly with copious quantities of water. If possible use tepid water. Keep the eyes open. If symptoms persist - obtain medical advice.
<b>Ingestion</b>	If only the mouth has been contaminated: Rinse the mouth carefully with plenty of water. Do not swallow. If swallowed: DO NOT INDUCE VOMITING! The product may be aspirated and cause fatal chemical pneumonia. If aspiration is suspected - take to hospital immediately. Monitor pulse and breathing.
<b>Medical information</b>	Treat symptomatically- relieve any discomforts. The product may be aspirated causing fatal chemical pneumonia. Do not induce vomiting. Perform gastric lavage only after endotracheal intubation. Monitor for cardiac dysrhythmias. Liquid paraffine may reduce the uptake in the intestinal canal. The product may be injected through the skin during high pressure applications. May cause subcutaneous necrosis. This requires immediate surgical examination and treatment of the skin and underlying tissue. Note that high pressure may force the product considerable distance along tissue planes.

### 5. PROTECTION AGAINST FIRE AND EXPLOSION

<b>Extinguishing media</b>	Extinguish with powder/carbon dioxide/foam. Water fog may also be used.
<b>Extinguishing media not to be used</b>	Do not use directed water jet.
<b>Fire/explosion risks</b>	Empty containers may still contain flammable residue and vapours. Never heat, cut, weld, solder or braze empty containers.
<b>Special fire- fighting procedures</b>	Use appropriate protective clothing. Fresh air (breathing) apparatus may be required. FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL WEARING APPROVED BREATHING APPARATUS.
<b>Additional information</b>	For major fires: CALL THE FIRE BRIGADE. Containers near fire must be moved and/or cooled with water. If possible prevent the water from reaching the fire. Ensure an escape path is always available from any fire.

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### 6. PROCEDURE IN CASE OF ACCIDENTAL RELEASE

<b>Personal precautions</b>	Spillage can make floor slippery.
<b>Environmental precautions</b>	Protect environmentally sensitive areas and water supplies. Prevent entry into sewers and waterways using sand, earth or other inert absorbent..
<b>Methods for cleaning up</b>	Contain and immediately recover spillage with suitable absorbent material. Shovel up and dispose of according to local rules and regulations.
<b>Additional information</b>	Isolate the spillage from all ignition sources. Ensure good ventilation. Use appropriate protective equipment. If major spillage contact the fire-brigade.

### 7. HANDLING AND STORAGE

<b>Special precautions</b>	Ensure good ventilation. Note the fire and the explosion hazard. Avoid prolonged and repeated contact with the skin. Use appropriate protective clothing. Do not smoke, drink or eat during handling. Observe good personal hygiene. Wash hands thoroughly with soap and water after handling. Remove contaminated clothes. Do not siphon product by mouth.
<b>Handling</b>	Transport, handle and store in accordance with applicable local regulations. Minimize the risk of accidental leakage or spillage.
<b>Storage</b>	Ensure good ventilation. Keep containers tightly closed. Store and use only in equipment/containers designed for this product. Containers must be correctly labeled. Never remove labels from containers. Keep away from sources of ignition. No smoking. Ensure storage equipment is electrically bonded and earthed to prevent accumulation of static electricity. Do not enter storage tank without a breathing apparatus unless the tank has been well ventilated. Contact the supplier for inspections , maintenance and repairs. Keep out of reach of children.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	EC-nr.	CAS-nr.	8 hour		Short		Type	Note	Year
			mg/m3	ppm	mg/m3	ppm			
oil mist			1						
decanes and other higher aliphatic hydrocarbons			350						
Fuels,diesel	269-822-7	68334-30-5	350						

<b>Exposure control</b>	Note that the product contains compounds that have an exposure limit. Comply with current local exposure limits.
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### Respiration protection

Airborne concentrations should be kept to lowest levels possible. If mist, dust or vapour is generated at concentrations above exposure limits or in case of poor ventilation use approved respirator as appropriate.

An approved half or full mask with gas filter A (brown) or respirator may be necessary.

Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels or other confined spaces.

### Eye protection

Face or eye protection should be used when there is a risk of direct contact or splashes.

### Hand protection

Protective gloves should be used when there is a risk of direct contact or splashes.

### Skin protection

Protective clothing should be worn when there is a risk of direct contact or splashes. Always remove oil soaked clothing. Overalls and protective clothing should be changed regularly, dry-cleaned and laundered before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	liquid
<b>Odour</b>	Diesel
<b>Solubility</b>	Organic solvents
<b>Boiling point</b>	170-400 °C
<b>Specific gravity</b>	800-870 kg/m <sup>3</sup> (15 °C)
<b>Explosion limits</b>	1-7%
<b>Solubility water</b>	25 g/m <sup>3</sup>
<b>Vapour pressure</b>	1 kPa (50 °C)
<b>Viscosity</b>	<7 mm <sup>2</sup> /s (40 °C)
<b>Auto-ignition temp.</b>	> 200 °C
<b>Flash point</b>	min. 60 °C
<b>octanol/water</b>	Log Pow >3

## 10. STABILITY AND REACTIVITY

### Stability

Avoid sources of ignition such as naked flames, sparks, hot surfaces.

### Reactivity

Avoid contact with strong oxidizing agents.

### Hazardous decomposition products

Thermal decomposition can produce hazardous gases depending on conditions during combustion. Combustion may generate smoke, carbon dioxide and hazardous gases including carbon monoxide.



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### 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Likely to be irritating to the respiratory tract if high concentrations of mists or vapour are inhaled. May cause nausea, dizziness, headaches and drowsiness. Aspiration of the product into the lungs may cause fatal chemical pneumonitis.
<b>Skin contact</b>	Degreases the skin. Prolonged or repeated contact can result in drying and cracking, irritation and dermatitis.
<b>Eye contact</b>	Unlikely to cause more than transient inconveniences such as redness and pain.
<b>Ingestion</b>	Swallowing a large amount may cause indisposition, vomiting and diarrhoea. The product may be aspirated when swallowed or as a result of vomiting after ingestion resulting in lung damage which may prove to be fatal - obtain medical advice immediately.
<b>Chronical effects</b>	Prolonged and/or repeated contact may result in significant skin irritation and dermatitis.
<b>Cancer</b>	This product, or a component of this product, has caused skin cancer when repeatedly applied to the skin of laboratory animals without any effort to remove the material between applications.
<b>LD50 Oral ( LD50 )</b>	>5000 mg/kg
<b>LD50 Dermal ( LD50 )</b>	>2000 mg/kg
<b>LC50 Inhalation ( LC50 )</b>	>5 mg/l

### 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	Spillage's may contaminate soil, water supplies and subsoil water.
<b>Biodegradability</b>	The product may not meet criteria for ready degradability.
<b>Accumulation</b>	The product has log Pow>3 indicating a potential to bioaccumulate.
<b>Ecotoxicity</b>	Available data for fish, Daphnia and algae indicate aquatic toxicity in the range 1-100 mg/l. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Effects</b>	A film may form on the surface of water and render physical damages on organisms.
<b>Additional information</b>	.

### 13. DISPOSAL CONSIDERATIONS



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### General

To be disposed of according to local regulations. Do not throw containers close to or into watercourses, dams, ponds, ditches or drains. Empty containers may still contain some remaining product. Do not heat, weld, braze or solder containers.  
At sea, store used and unwanted product for discharge to approved waste oil disposal facilities. Oil containing waste water must also be taken care of. Do not discharge at sea.

### 14. TRANSPORT INFORMATION

UN number	1202
Label	3
Packing group	III
ADR/RID- Class	3
ADR/RID- Danger number	30
IMDG- Class	3, III
IMDG- EmS	F-E,S-E
Flash point	min. 60 °C
IMDG- Proper sh. name	Gas oil.
IATA- class	3
Additional information	Bulk transport: transported as contaminating goods according to Annex I in MARPOL 73/78.

### 15. REGULATORY INFORMATION

#### Risk symbols



#### Ingredients

Fuels,diesel >99

#### R-phrases

R-40 Limited evidence of a carcinogenic effect.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-66 Repeated exposure may cause skin dryness or cracking  
R-65 Harmful: may cause lung damage if swallowed.

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<b>S-phrases</b>	S-36/37	Wear suitable protective clothing and gloves.
	S-62	If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.
	S-23	Do not breathe gas/fumes/vapour/spray.
	S43	In case of fire use powder, carbon dioxide or foam. Never use water jets.
	S29	Do not empty into drains.
	S-61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 16. OTHER INFORMATION

<b>Relevant risk phrases given in section 3</b>	R-40 Limited evidence of a carcinogenic effect. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-65 Harmful: may cause lung damage if swallowed.
<b>Information sources</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council. The Swedish Chemicals Inspectorate's Regulations (KIFS 2005:5) on EC-harmonized, binding classification and labelling (Classification List). Concawe: Classification and labelling of petroleum substances according to the EU dangerous substances directive. report no.6/05 (July 2005). Concawe: petroleum products-first aid emergency and medical advice. report no. 1/97. Concawe product dossier no. 95/107, gas oils (diesel fuels/heating oils).. General Recommendations, 1991:1, issued by the National Chemicals Inspectorate and accompanying its Regulations (KIFS 1994:12) on the Classification and Labelling of Chemical Products
<b>Additional information</b>	Latest changes are made in section: 1,2,3 to comply with REACH.
<b>First released</b>	15.07.2002
<b>Replaces</b>	11.08.1999
<b>Printed date</b>	14.10.2008

--- SAFETY DATA SHEET conforming to EC-regulations 1907/2006, directive 67/548/EEC(2006/121/EC), 99/45 EC

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