

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

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

1.1. Product identifier

Trade name Gasoil
Synonyms Heating oil/marine gasoil

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

RECOMMENDED USES: Fuel.
INADVISABLE USES: None.

1.3. Details of the supplier of the safety data sheet

NATIONAL MANUFACTURER/IMPORTER

Enterprise Statoil Refining Denmark A/S
Address Melbyvej 17
Postal code 4400 Kalundborg
Country Denmark
Email Statoil chemical competence center: chem@statoil.com
Tel +45 59574500

1.4. Emergency telephone number

Emergency Phone	Type of assistance	Opening Hours
(+45) 82 12 12 12	Poison Control Hotline (Denmark)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

DPD Xn; R20, Xi; R38, Carc. Cat. 3; R40, N; R51/53, Xn; R65

Classification:

CLP Asp. Tox. 1; H304, Skin Irrit. 2; H315, Acute Tox. 4; H332, Carc. 1B; H350, STOT RE 2; H373, Aquatic
Classification: Acute 1; H400, Aquatic Chronic 1; H410

Most serious harmful effects:: May be fatal if swallowed and enters airways. Causes skin irritation. Harmful if inhaled. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements



Signal word: Danger

COMPOSITION

Fuels, diesel (60 - 70 %), Gas oils (petroleum), thermacracked, hydrodesulfurized (30 - 40 %)

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

H-phrases

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

P-phrases

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container in accordance with local regulation.
P280	Wear protective gloves/protective clothing.
P332/313	If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ingredient name	Reg. no.	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Fuels, diesel	01-2119484664-27-0021	269-822-7	68334-30-5	60 - 70 %	Xn,Xi,N,Carc. Cat. 3,R38 - R40 - R51/53 - R65 - R20	Acute Tox. 4 H332 Skin Irrit. 2 H315 Carc. 2 H351 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Chronic 2 H411
Gas oils (petroleum), thermacracked, hydrodesulfurized	01-2119475512-39-0002	295-411-7	92045-29-9	30 - 40 %	Xn,Xi,N,Carc. Cat. 2,R38 - R45 - R51/53 - R65 - R20	Skin Irrit. 2 H315 Carc. 1B H350 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

The EUH hazard statements mentioned in CLP-classification are only label elements.

SECTION 4: First aid measures

4.1. Description of first aid measures

INHALATION

Seek fresh air. Seek medical advice in case of persistent discomfort.

INGESTION

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

SKIN

Remove contaminated clothing. Wash skin with soap and water. Remove contaminated clothing, watch and jewellery. Seek medical advice in case of persistent discomfort.

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

EYES

Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

BURNS

Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

GENERAL

Other information: When obtaining medical advice, show the safety data sheet or label.

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

Harmful if inhaled. May be fatal if swallowed and enters airways. Suspected of causing cancer. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure.

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

In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA:

Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

UNSUITABLE EXTINGUISHING MEDIA

Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Can generate harmful flue gases containing carbon monoxide in the event of fire.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

FOR NON-EMERGENCY PERSONNEL

Smoking and naked flames prohibited. Wear gloves. Stay upwind/keep distance from source. Keep unnecessary personnel away. Provide good ventilation.

FOR EMERGENCY RESPONDERS

In addition to the above: Chemical protective suit equivalent to EN 943-2 is recommended.

6.2. Environmental precautions

Stop leak if this can be done without risk. Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

METHODS AND MATERIAL

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers.

6.4. Reference to other sections

See section 13 for instructions on disposal. See section 8 for type of protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

A safety shower should be available. Do not store, use and/or consume foods, beverages or tobacco products in the work room. Store personal protective equipment separately from other clothing.

Permanent workplaces must have effective process ventilation, e.g. local exhaust ventilation. Where this is not possible, wear respiratory protective equipment as indicated below. Make sure the room is well ventilated.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a well-ventilated area.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

LEGAL BASIS

EH40/2005 Workplace exposure limits incl. supplement from October 2007. Contains no substances subject to reporting requirements.

BIOLOGICAL THRESHOLD VALUES

DNEL values: 68334-30-5:

Workers:

Dermal DNEL (acute/short-term exposure - systemic effects), 4300mg/m³/15min, Assessment factor 7,5, Dose descriptor NOAEC,

Dermal DNEL (long-term exposure - systemic effects), 2,9mg/kg/8h, Assessment factor 24, Dose descriptor NOEL,

Inhalation DNEL (long-term exposure - systemic effects), 68 mg/m³/8h, Assessment factor 7,5, Dose descriptor NOEL,

General population:

Inhalation DNEL (acute/short-term exposure - systemic effects), 2600 mg/m³/15min , Assessment factor: 7,5 , Dose descriptor: NOAEC,

Dermal DNEL (long-term exposure - systemic effects), 1,3 mg/kg/24h, Assessment factor: 24 , Dose descriptor NOAEL,

Inhalation DNEL (long-term exposure - systemic effects), 20 mg/m³/24h, Assessment factor 7,5 , Dose descriptor NOEL,

PNEC values: 68334-30-5:

PNEC aqua (freshwater) 0,083 mg/l, Assessment factor: 1, Extrapolation method Statistic extrapolation

8.2. Exposure controls

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

EXPOSURE SCENARIOS

See enclosed exposure scenarios for further information.

APPROPRIATE ENGINEERING CONTROLS

Wear the personal protective equipment specified below.

EYE PROTECTION

Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166

HAND PROTECTION

Light use (small volume, shortterm contact (below 10 min.)):

Use disposable gloves of nitril rubber. Change gloves immediately if contaminated, and wash hands with soap and water. Medium use (medium volume, medium contact (1-2 hours)):

Wear protective gloves made of nitrile rubber. Wear coveralls. Heavy use (high volume, longterm contact (more than 2 hours)):

Wear protective gloves made

of nitrile rubber. Wear coveralls. Penetration time nitril rubber >8 timer

Gloves must conform to EN 374.

RESPIRATORY PROTECTION

Light use (small volume, shortterm contact (below 10 min.)):

Not required. Medium - heavy use (medium high volume, longterm medium contact (>1 hours)):

In case of insufficient ventilation, wear respiratory protective equipment with filter A. Respiratory protection must conform to one of the following standards: EN 136/140/145.

LIMITATION OF ENVIRONMENTAL EXPOSURE

Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

STATE	Liquid
COLOUR	Brown
ODOUR	Gasoil
SOLUBILITY	Not miscible
EXPLOSIVE PROPERTIES	N/A
OXIDISING PROPERTIES	N/A

Parameter	Value/unit	Method/reference	Observation
pH (concentrate)	No data	N/A	
pH (solution for use)	No data	N/A	
Melting point	-40 - 6 °C		
Freezing point	No data		
Initial boiling point and boiling range	141 - 500 °C		
Flash point	60 °C		
Evaporation rate	No data	N/A	
Flammability (solid, gas)	No data		
Flammability limits	> 225 °C		
Explosion limits	No data	N/A	
Vapour pressure	0,4 kPa	(40°C)	
Vapour density	No data	N/A	
Relative density	0,8 - 1		
Partition coefficient	No data	N/A	
Auto-ignition temperature	> 225 °C		
Decomposition temperature	No data	N/A	
Viscosity	> 1,3 mm ² /s	(40°C)	
Odour threshold	N/A		

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

9.2. Other information

Parameter	Value/unit	Method/reference	Observation
Pour point	-40 - +6 °C		
Flammability (solid, gas)	Combustible		

Note no.	Comments
----------	----------

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as carbonoxides will be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Fuels, diesel						
Route of exposure	Exposure time	Value/unit	Result	Species	Source	Test method
LC50 (Inhalation)	4 h	4,1 mg/l		Rat		
LD50 (Dermal)		> 4300 mg/kg		Rabbit		
LD50 (Oral)		> 7600 mg/kg		Rat		

Acute toxicity - oral

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Ingestion may cause discomfort.

Acute toxicity - dermal

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Harmful by inhalation.

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

Skin corrosion/irritation

Irritating to skin - may cause reddening.

68334-30-5: Rabbit, 24 h: Irritating (OECD 404)

Serious eye damage/eye irritation

Temporary irritation. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

68334-30-5: Rabbit, 24 h: Not irritating, (OECD 405)

Respiratory sensitisation or skin sensitisation

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

68334-30-5: Guinea pig: Non-sensitising (OECD 406)

Germ cell mutagenicity

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

68334-30-5: Rat: Negative no effect (OECD 475)

Carcinogenic properties

May cause cancer.

68334-30-5: Mouse, 104 weeks: Neoplastic effects: yes. (OECD 451)

Reproductive toxicity

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

68334-30-5:

Rat: dermal 20 days NOAEL: 125mg/kg bw/day

Inhalation NOAEC >401 ppm

Single STOT exposure

The product does not have to be classified. Test data are not available.

Repeated STOT exposure

May cause damage to organs through prolonged or repeated exposure. Affected organs: blood, thymus, liver.

68334-30-5:

Rat, 28 days, dermal, NOAEL 0,5 ml/kg,

Rat 90 days: Inhalation NOAEC >1710 mg/m³

Rat 90 days: dermal NOAEL 30mg/kg/day

Aspiration hazard

May cause chemical pneumonia if ingested or vomited. Test data are not available.

Other toxicological effects

None known.

SECTION 12: Ecological information

12.1. Toxicity

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

Fuels, diesel						
Route of exposure	Exposure time	Value/unit	Result	Species	Source	Test method
IC50 (Acute algae)	72 h	22 mg/l		Algae		Acute toxicity
LC50 (Acute Daphnia)	48 h	68 mg/l		Daphnia magna		Acute toxicity
LC50 (Acute fish)	96 h	21 mg/l		Oncorhynchus mykiss		Acute toxicity
LC50 (NOEL)	14 d	0,083 mg/l		Oncorhynchus mykiss		Chronic toxicity
LC50 (NOEL)	14 d	0,21 mg/l		Daphnia magna		Chronic toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Contains substances which are not readily degradable.68334-30-5: Readily biodegradable.
92045-29-9: Not readily biodegradable.

12.3. Bioaccumulative potential

May bioconcentrate in aquatic organisms.

12.4. Mobility in soil

The product is predicted to have low mobility in soil and sediment.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

GENERAL REGULATIONS

Avoid discharge to drain or surface water. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

CATEGORY OF WASTE

EWC code: Depends on line of business and use, for instance 13 07 01 fuel oil and dieselAbsorbent/cloth contaminated with the product:

EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

SECTION 14: Transport information

Classified as Dangerous Goods: Yes

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

Land transport (ADR/RID)

14.1. UN number	1202	14.4. Packing group	III
14.2. UN proper shipping name	DIESEL FUEL	14.5. Environmental hazards	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es)	3		
Hazard label(s)			
Hazard identification number	30	Tunnel restriction code	D/E

Inland water ways transport (ADN)

14.1. UN number	1202	14.4. Packing group	III
14.2. UN proper shipping name	DIESEL FUEL	14.5. Environmental hazards	yes
14.3. Transport hazard class(es)	3		
Hazard label(s)			
Environmental hazard in tank vessels	N2, F		

Sea transport (IMDG)

14.1. UN number	1202	14.4. Packing group	III
14.2. UN proper shipping name	DIESEL FUEL	14.5. Environmental hazards	MP, The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es)	3		
Hazard label(s)			
Sub Risk:			
IMDG Code segregation group	None.		
Marine pollutant			
Substance name(s) on marine pollutant			
EMS:			

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number	1202	14.4. Packing group	III
14.2. UN proper shipping name	DIESEL FUEL		
14.3. Transport hazard class(es)	3		
Hazard label(s)			

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

14.6. SPECIAL PRECAUTIONS FOR USER

None.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not included.

SECTION 15: Regulatory information

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

PROVISIONS

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.

15.2. Chemical safety assessment

OTHER INFORMATION

Chemical safety assessments have been performed for the following substance:

Fuels, diesel (CAS: 68334-30-5/ EINECS: 269-822-7)

Gas oils (petroleum), thermal-cracked, hydrodesulfurized (CAS: 92045-29-9/ EINECS: 295-411-7)

SECTION 16: Other information

Indication of changes

Indication of changes

Version	Rev. date	Responsible	Changes
1.0.0	08/07/2013	Jette Røgen	Changes has been made in section: 9, 16,

ABBREVIATIONS

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and Very Bioaccumulative

STOT: Specific Target Organ Toxicity

CLASSIFICATION METHOD

Test data

LIST OF RELEVANT R-PHRASES

R20	Harmful by inhalation.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R45	May cause cancer.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: May cause lung damage if swallowed.

LIST OF RELEVANT H-STATEMENTS

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

Gasoil

Last changed: 08/07/2013

Replaces date: 23/06/2011

TRAINING ADVICE

A thorough knowledge of this safety data sheet should be a prerequisite condition.

OTHER INFORMATION

Exposure scenarios are enclosed as appendicies. Version: 01.00 /GBR

SDS IS PREPARED BY

Enterprise	Bureau Veritas HSE Denmark A/S
Address	Birkemosevej 7
Postal code	DK-6000 Kolding
Country	Denmark
Email	infohse@dk.bureauveritas.com
Internet	www.hse.bureauveritas.dk
Tel	+45 75508811
Fax	+45 75508810