

SAFETY DATA SHEET

Diesel

Last changed: 23/08/2011

Replaces date: 24/02/2011

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

1.1 Product identifier

Trade name / designation Diesel
SYNONYMS Automative gasoil

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

RELEVANT IDENTIFIED USES Fuel.
USES ADVISED AGAINST None.

1.3 Details of the supplier of the safety data sheet

NATIONAL MANUFACTURER/IMPORTER

Enterprise Statoil ASA (Site: Mongstad)
Address Forusbeen 50
Postal code N-4035 Stavanger
Country Norge
E-mail Statoil competence center: chem@statoil.com
Telephone +47 56 34 40 00

1.4 Emergency Telephone Number

Emergency Phone	Type of assistance	Opening Hours
+47 22 59 13 00	(Norwegian Poisons Information Centre)	

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. 1H304, Skin Irrit. 2H315, Acute Tox. 4H332, Carc. 2H351, STOT RE 2H373, Aquatic
Classification: Chronic 2H411

Most important HSE hazard effects: May be fatal if swallowed and enters airways. Causes skin irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2 Label elements



Signal word: Danger

COMPOSITION

Fuels, diesel (93 - 100 %)

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H Statements

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.

P Statements

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.

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	93 - 100 %	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
Fatty acids, C16-18 and C18-unsaturated., Metyl esters	01-2119471664-32-0004	267-015-4	67762-38-3	0 - 7 %		
2-ethylhexyl nitrate		248-363-6	27247-96-7	0,05 %	Xn,R44 - R20/21	Acute Tox. 4 H312 Acute Tox. 4 H332

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

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

INGREDIENT COMMENTS

Fuels, diesel: Sulfur content: max 10 mg/kg.

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 CONTACT

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

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EYE CONTACT

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.

5 Fire-fighting 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 fire-fighters

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.

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.

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6.3 Methods and material for containment and cleaning up

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.

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.

Smoking and naked flames prohibited.

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 under lock. Keep in tightly closed original packaging. Store in a well-ventilated area.

7.3 Specific end uses

None.

8 Exposure controls / Personal protection

8.1 Control parameters

LEGAL BASIS

EH40/2005 Workplace exposure limits incl. supplement from October 2007.

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OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

Contains no substances subject to reporting requirements.

DNEL values: 68334-30-5:

Workers

Dermal DNEL (acute/short-term exposure - systemic effects)

4300mg/m³/15 min

Assessment factor 7.5. Dose descriptor: NOAEC.

Dermal DNEL (long-term exposure - systemic effects)

2.9 mg/kg/8h

Assessment factor 24 Dose descriptor: NOAEL

Inhalation DNEL (long-term exposure - systemic effects)

68 mg/m³/8h (aerosol)

Assessment factor 7.5. Dose descriptor: NOEL

General population:

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/m³/24 h (aerosol)

Assessment factor 7.5 Dose descriptor: NOEL

Inhalation DNEL acute/short-term exposure - systemic effects)

2600 mg/m³/15 min (aerosol)

Assessment factor 7.5 Dose descriptor: NOAEC

PNEC values 68334-30-5:

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

8.2 Exposure controls

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 gloves. Type of material: Nitrile rubber. Wear coveralls.

Heavy use (high volume, longterm contact (more than 2 hours)): Wear gloves. Type of material: Nitrile rubber. Wear coveralls.

Penetration time nitril rubber >8 hours.

Gloves must conform to EN 374.

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RESPIRATORY PROTECTION

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

Not required.

Medium - heavy use (medium - high volume, medium - longterm contact (>1 hours)):

In case of insufficient ventilation, wear respiratory protective equipment. Filter type: 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.

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

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

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data	N/A	
pH in solution	No data	N/A	
Melting point	-40 - 6 °C		
Freezing point	No data		
Initial boiling point and boiling range	141 - 500 °C		
Flash point	65 °C		
Evaporation rate	No data	N/A	
Flammability (solid, gas)	No data	Combustible	
Flammability limits	> 225 °C		
Explosion limits	No data	N/A	
Vapour pressure	0,40 kPa	(40°C)	
Vapour density	No data	N/A	
Relative density	0,80 - 0,91		
Partition coefficient	No data	N/A	
Auto-ignition temprature	> 225 °C		
Decomposition temprature	No data	N/A	
Viscosity	> 1,30 mm ² /s	(40°C)	
Odour threshold	N/A		

9.2 Other safety information

Note no.	Comments
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OTHER INFORMATION

Pour point: -40 - +6 °C

10 Stability and Reactivity

10.1 Reactivity

Not reactive.

10.2 Chemical stability

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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.

11 Toxicological information

11.1 Toxicological effects

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

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.

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

Harmful by inhalation.

Irritating to skin & may cause reddening.

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

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, 72h: not irritating (OECD 405)

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 (Hartley): not sensitizing (OECD 406)

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: 3000 mg/kg: Negative - No effect.

May cause cancer.

68334-30-5: Maus: (3 weeks) Neoplastics effects: yes

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: 20 days (125mg/kg bw/day) Negative inhalation NOAEC >401 ppm

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

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

68334-30-5: Rat, 500mg/kg bw/day, 90 days: Inhalation NOAEC > 1710 mg/m³

May cause chemical pneumonia if ingested or vomited.

Test data are not available.

None known.

12 Ecological information

12.1 Toxicity

Fuels, diesel				
Test	Exposure time	Value/unit	Species	Source
EC50 (Acute Daphnia)	48 h	68 mg/l	Daphnia magna	
IC50 (Acute algae)	72 h	22 mg/l		
LC50 (Acute fish)	96 h	21 mg/l	Oncorhynchus mykiss	

Toxic to aquatic life with long lasting effects. Chronic toxicity: 68334-30-5: Fish: Oncorhynchus mykiss: 14dNOEL = 0,083 mg/l

Crustacea: Daphnia magna: 21dNOEL = 0,21 mg/l

12.2 Persistence and degradability

Contains substances which are not readily degradable.

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.

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 diesel

Absorbent/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

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14 Transport information

Classified as Dangerous Goods: Yes

Land transport (ADR/RID)

14.1 UN-No.	1202	14.4 Packing group	III
14.2 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 Class(es)	3		
Hazard label(s)			
Hazard ID:		Tunnel restriction code	D/E

Inland water ways transport (ADN)

14.1 UN-No.	1202	14.4 Packing group	III
14.2 Proper Shipping Name	DIESEL FUEL	14.5 Environmental hazards	Yes
14.3 Class(es)	3		
Hazard label(s)			
Environmentally hazardous in tank-vessels	N2, F		

Sea transport (IMDG)

14.1 UN-No.	1202	14.4 Packing group	III
14.2 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 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-No.	1202	14.4 Packing group	III
14.2 Proper Shipping Name	DIESEL FUEL		
14.3 Class(es)	3		
Hazard label(s)			

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.

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15 Regulatory information

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

OTHER REGULATORY INFORMATION

Covered by: Seveso directive: 96/82/EC

PROVISIONS

None.

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)

16 Other information

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.
R20/21	Harmful by inhalation and in contact with skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R44	Risk of explosion if heated under confinement.
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.
H312	Harmful in contact with skin.
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.

TRAINING ADVICE

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

OTHER INFORMATION

Changes have been made in the following sections: 2,12,15,16Other information: Exposure scenarios are enclosed as appendices.Version: 02.00 /GBR

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