



# GAS OIL

## Safety Data Sheet

according to Regulation (EU) 2015/830

Revision date: 12/19/2016

Supersedes: 3/1/2011 Version: 6.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product form : Mixtures  
Product name : GAS OIL  
Synonyms : G.O.R.V. Ultra Low Sulphur Diesel, AD10

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Fuel

##### 1.2.2. Uses advised against

No additional information available

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

Tedcastles Oil Products Ltd  
Promenade Road  
Dublin Port, Dublin 3 - Ireland  
T 00353-1-8198000 - F 00353-1-8786635  
[safety@top.ie](mailto:safety@top.ie) - [www.top.ie](http://www.top.ie)

#### 1.4. Emergency telephone number

Emergency number : 00353-1-8198000 (09:00 - 17:00 GMT)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Acute toxicity (inhalation:dust,mist) 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
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of hazard classes and H-statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Diesel Oil C9-20; Naphthalene; Distillates (petroleum) full range straight-run middle

Hazard statements (CLP) :

H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H332 - Harmful if inhaled  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P233 - Keep container tightly closed

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P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P260 - Do not breathe mist, spray, vapours  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves, protective clothing  
P301+P310 - If swallowed: Immediately call a poison center or doctor  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P312 - Call a poison center or doctor if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
P331 - Do NOT induce vomiting  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish  
P391 - Collect spillage  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
0% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 0 % of components with unknown hazards to the aquatic environment

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diesel Oil C9-20	(CAS No) 68334-30-5 (EC no) 269-822-7 (EC index no) 649-224-00-6	95 - 100	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Naphthalene	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	< 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

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First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Risk of aspiration pneumonia.

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

Symptoms/injuries : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

Fire hazard : Flammable liquid and vapour. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.

Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

### 5.3. Advice for firefighters

Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

General measures : Avoid all eye and skin contact and do not breathe vapour and mist. Do not breathe aerosol. Ensure adequate ventilation. Stop leak if safe to do so. Safety showers and eye wash stations should be located near areas with splash hazards. Use personal protective equipment as required. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel. Eliminate ignition sources.

#### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

### 6.2. Environmental precautions

Do not discharge into drains or the environment. Prevent entry to sewers and public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid all eye and skin contact and do not breathe vapour and mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Flammable vapours may accumulate in the container. Provide good ventilation in process area to prevent formation of vapour. Use personal protective equipment as required. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.

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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating, lighting, electrical equipment.

Storage conditions : Store in correctly labelled containers. Keep container tightly closed.

Incompatible products : Strong oxidizers. Reducing agents.

Incompatible materials : Heat sources.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

### 7.3. Specific end use(s)

Fuel.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

<b>Diesel Oil C9-20 (68334-30-5)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Belgium	Remark (BE)	D "(Gazole, vapeur et aérosol, en hydrocarbures totales)"
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Ireland	Notes (IE)	Diesel fuel/kerosene
Portugal	Local name	Fuel diesel, expresso como hidrocarbonetos totais
Portugal	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
<b>Naphthalene (91-20-3)</b>		
EU	Local name	Naphthalene
EU	IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	Notes	SCOEL Recommendations (2010)
Austria	MAK (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Austria	MAK (ppm)	10 ppm
Austria	Remark (AT)	(III B,H)
Belgium	Limit value (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	15 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Naftalen
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	9.6 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	19 ppm
Denmark	Local name	Naphthalen
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Finland	Local name	Naftaleeni
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	1 ppm

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<b>Naphthalene (91-20-3)</b>		
Finland	HTP-arvo (15 min)	10 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	2 ppm
France	Local name	Naphtalène
France	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
France	Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2
Germany	Local name	Naphthalin
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> E (mg/m <sup>3</sup> )
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.1 ppm E (mg/m <sup>3</sup> )
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	0.1 ppm
Germany	Remark (TRGS 900)	AGS,H,Y,11
Hungary	Local name	NAFTALIN
Hungary	AK-érték	50 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i; EU1
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	15 ppm
Latvia	Local name	Naftalīns
Latvia	OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	10 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	10 ppm
Lithuania	Remark (LT)	K
Netherlands	Local name	Naftaleen
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Poland	Local name	Naftalen
Poland	NDS (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Portugal	Local name	Naftaleno
Portugal	OEL TWA (ppm)	10 ppm
Portugal	OEL STEL (ppm)	15 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	Upozornenie (SK)	(K)
Slovenia	Local name	naftalen
Slovenia	OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	10 ppm
Spain	Local name	Naftaleno
Spain	VLA-ED (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	10 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	15 ppm

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Naphthalene (91-20-3)		
Spain	Notes	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden	Local name	Naftalen
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	15 ppm
Sweden	Anmärkning (SE)	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	15 ppm
United Kingdom	Remark (WEL)	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.
Norway	Local name	Naftalen
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet)
Switzerland	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Switzerland	VME (ppm)	10 ppm
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
USA - ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	79 mg/m <sup>3</sup>
USA - ACGIH	ACGIH STEL (ppm)	15 ppm
USA - ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)

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### 8.2. Exposure controls

#### Appropriate engineering controls:

Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. Industrial and professional. Perform risk assessment prior to use.

#### Eye protection:

Chemical goggles or safety glasses. EN166

#### Skin and body protection:

Wear suitable protective clothing. Chemical resistant apron. Foot protection. Long sleeved protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved respirator. EN 136/140

#### Environmental exposure controls:

Prevent leakage or spillage. Prevent contaminated water run-off.

#### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: Liquid
Appearance	: Clear.
Colour	: red.
Odour	: petroleum.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 160 - 375 °C
Flash point	: > 55 °C
Auto-ignition temperature	: 250 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: < 0.3 kPa @ 20 °C
Relative vapour density at 20 °C	: > 1
Relative density	: 0.82 - 0.875 @ 15 °C
Solubility	: Negligible.
Log Pow	: No data available
Viscosity, kinematic	: 1.5 - 5.5 mm <sup>2</sup> /s @ 40 °C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0.5 vol %
Upper explosive limit (UEL)	: 5 vol %

### 9.2. Other information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No dangerous reactions known.

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### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat. Avoid formation of vapours. Open flame. Overheating. Direct sunlight. Sparks.

### 10.5. Incompatible materials

Strong oxidizers. Strong reducing agents.

### 10.6. Hazardous decomposition products

None under normal use. May release flammable gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity : Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (dust,mist)	4.093 mg/l/4h
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Diesel Oil C9-20 (68334-30-5)	
LD50 oral rat	≈ 17900 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	4.1 mg/l/4h

Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	20 g/kg
LC50 inhalation rat (mg/l)	> 340 mg/m <sup>3</sup> 1 hour

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
0% of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Diesel Oil C9-20 (68334-30-5)	
LOAEL (dermal, rat/rabbit, 90 days)	> 125 mg/kg bodyweight/day Liver, thymus, spleen

Aspiration hazard : May be fatal if swallowed and enters airways.

GAS OIL	
Viscosity, kinematic	1.5 - 5.5 mm <sup>2</sup> /s @ 40 °C

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Diesel Oil C9-20 (68334-30-5)	
NOEC (acute)	46 mg/l 48 h Daphnia magna
NOEC chronic fish	>0.1 - <=1 mg/l
NOEC chronic crustacea	>0.01 - <= 0.1 mg/l

Naphthalene (91-20-3)	
LC50 fish 1	> 0.91 (0.91 - 2.82) mg/l Oncornhynchus mykiss
LC50 fish 2	> 1 (1 - 6.5) mg/l Pimpephales promelas
EC50 Daphnia 1	>= 1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 mg/l



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Unknown hazards to the aquatic environment (CLP) : Contains 0 % of components with unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

GAS OIL	
Persistence and degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

GAS OIL	
Bioaccumulative potential	Expected to bioaccumulate.
Diesel Oil C9-20 (68334-30-5)	
Log Kow	>= 4
Naphthalene (91-20-3)	
BCF fish 1	>= 427 (427 - 1158)

### 12.4. Mobility in soil

GAS OIL	
Ecology - soil	Not established.

### 12.5. Results of PBT and vPvB assessment

GAS OIL	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste disposal recommendations : Do not pierce or burn, even after use. Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.  
13 07 01\* - fuel oil and diesel

## SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1202  
UN-No. (IMDG) : 1202  
UN-No. (IATA) : 1202  
UN-No. (ADN) : 1202  
UN-No. (RID) : 1202

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : GAS OIL  
Proper Shipping Name (IMDG) : GAS OIL  
Proper Shipping Name (IATA) : Gas oil  
Proper Shipping Name (ADN) : GAS OIL  
Proper Shipping Name (RID) : GAS OIL  
Transport document description (ADR) : UN 1202 GAS OIL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS  
Transport document description (IMDG) : UN 1202 GAS OIL, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 1202 Gas oil, 3, III, ENVIRONMENTALLY HAZARDOUS  
Transport document description (ADN) : UN 1202 GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 1202 GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

ADR  
Transport hazard class(es) (ADR) : 3

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Danger labels (ADR) : 3



### IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



### IATA

Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

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### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 640K, 363, 664
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: 3Y

#### - Transport by sea

Special provisions (IMDG)	: 363
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Immiscible with water.

#### - Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

#### - Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 363, 640K
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01

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Number of blue cones/lights (ADN)	: 0
<b>- Rail transport</b>	
Classification code (RID)	: F1
Special provisions (RID)	: 363, 640K
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Diesel Oil C9-20, Distillates (petroleum) full range straight-run middle are listed

SZW-lijst van mutagene stoffen : Diesel Oil C9-20, Distillates (petroleum) full range straight-run middle are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

Indication of changes:  
Revised format.

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### Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	PBT: Persistent, Bioaccumulative, Toxic
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
vPvB	Very Persistent and Very Bioaccumulative

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.  
 Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
 National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.  
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

### Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
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
H413	May cause long lasting harmful effects to aquatic life

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	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

SDS prepared by: The Redstone Group, LLC

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*