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

### 1.1. Product identifier

Product form	: Substance
Trade name	: HEATING OIL
Chemical name	: Fuels, diesel, no. -2
EC Index	: 649-227-00-2
EC-No.	: 270-676-1
CAS-No.	: 68476-34-6
REACH registration No	: 01-2119475502-40-0018
Product group	: Trade product

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

#### 1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Use of the substance/mixture	: Fuels
	Further information: see exposure scenarios attached to this safety data sheet.

Title	Use descriptors
Distribution of substance (ES Ref.: 01a)	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ESVOC SPERC 1.1b.v1
Use as an intermediate (ES Ref.: 01b)	SU8, SU9, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15, PROC28, ERC6a, ESVOC SPERC 6.1a.v1
Use as a fuel (ES Ref.: 12a)	PROC1, PROC2, PROC8a, PROC8b, PROC16, PROC28, ERC7, ESVOC SPERC 7.12a.v1
Use as a fuel (ES Ref.: 12b)	PROC1, PROC2, PROC8a, PROC8b, PROC16, PROC28, ERC9a, ERC9b, ESVOC SPERC 9.12b.v1
Use as a fuel (ES Ref.: 12c)	PC13, ERC9a, ERC9b, ESVOC SPERC 9.12c.v1
Formulation & (re)packing of substances and mixtures (ES Ref.: 02)	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC28, ERC2, ESVOC SPERC 2.2.v1

Full text of use descriptors: see section 16

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier


NIS a.d. Novi Sad  
 Narodnog Fronta 12  
 21000 Novi Sad - Serbia  
 T + 381 (0) 21 481 1111  
[Dragana.Cvetkov@nis.eu](mailto:Dragana.Cvetkov@nis.eu) (REACH)

#### Only Representative

BENS Consulting d.o.o.  
 Špruha 19  
 1236 Trzin - Slovenija  
 T +386 41 979 800  
[info@bens-consulting.eu](mailto:info@bens-consulting.eu)

### 1.4. Emergency telephone number

Emergency number : + 381 (0) 21 481 1111  
 Only available during office hours.

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Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Carc. 2	H351
Aquatic Chronic 2	H411
Skin Irrit. 2	H315
Acute Tox. 4 (Inhalation)	H332
STOT RE 2	H373
Asp. Tox. 1	H304

Full text of H- and EUH-statements: see section 16

### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word

: Danger


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)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe vapours.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.  
P331 - Do NOT induce vomiting.  
: EC Index-No.: 649-227-00-2

Listed in Annex VI

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### 2.3. Other hazards

Other hazards : Vapours can form explosive mixtures with air. as appropriate : 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.

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

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : Fuels, diesel, no. 2  
CAS-No. : 68476-34-6  
EC-No. : 270-676-1  
EC Index : 649-227-00-2

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fuels, diesel, no. -2	(CAS-No.) 68476-34-6 (EC-No.) 270-676-1 (EC Index) 649-227-00-2	$\leq 100$	Asp. Tox. 1, H304 Skin Irrit. 2, H315 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 2, H411 Flam. Liq. 3, H226

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures


Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

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Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Inhalation : Harmful if inhaled. May cause respiratory irritation. The following symptoms may occur: Headache. Nausea. Dizziness. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.

Skin contact : Causes skin irritation. The following symptoms may occur: Redness, pain.

Eyes contact : Contact with eyes may cause irritation.

Ingestion : May be fatal if swallowed and enters airways. Harmful: may cause lung damage if swallowed.

Chronic symptoms : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

**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 (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. As appropriate : 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.


Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Sulphur oxides. Hydrogen sulfide. sulphuric acid.

**5.3. Advice for firefighters**

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools. As appropriate : 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.

#### 6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation. After cleaning, flush traces away with water.

### 6.4. Reference to other sections


Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. 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. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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

Storage conditions	: Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage. Take precautionary measures against static discharge.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.
Special rules on packaging	: Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not pierce or burn, even after use. Keep in properly labelled containers.
Packaging materials	: Keep only in the original container. Suitable material: Mild steel, Stainless steel. Unsuitable material: Synthetic material.

### 7.3. Specific end use(s)

see attached exposure scenario.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters


Fuels, diesel, no. -2 (68476-34-6)		
Belgium	OEL TWA	100 mg/m <sup>3</sup> (aerosol and vapor)
Portugal	OEL TWA	100 mg/m <sup>3</sup> (aerosol and vapor (Fuel diesel)
USA - ACGIH	ACGIH OEL TWA	100 mg/m <sup>3</sup> (inhalable fraction and vapor (Diesel fuel)

HEATING OIL (68476-34-6)	
DNEL/DMEL (workers)	
Acute - systemic effects, inhalation	(15min) 4300 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	(8h) 2,9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	(8h) 68 mg/m <sup>3</sup>
DNEL/DMEL (general population)	
Acute - systemic effects, inhalation	(15min) 2600 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	20 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1,3 mg/kg bodyweight/day

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

### 8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.


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Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: rubber gloves. (EN 374). NBR (Nitrile rubber). Breakthrough time : >480min. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): Safety glasses. goggles
Body protection	: Wear suitable coveralls to prevent exposure to the skin
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Comply with applicable Community environmental protection legislation. Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid.
Colour	: red.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 156 – 400 °C
Flash point	: > 55 °C Closed cup
Auto-ignition temperature	: ~ > 200 °C
Decomposition temperature	: No data available
Flammability	: Not applicable,liquid
Vapour pressure	: < 0,1 kPa
Vapour density	: > 3
Relative density	: 0,83 – 0,87 g/cm <sup>3</sup>
Density	: ~ 0,84 g/cm <sup>3</sup> (15°C)
Solubility	: No additional information available.
Partition coefficient n-octanol/water	: 3,9 – 6
Kinematic viscosity	: ≤ 0,87 mm <sup>2</sup> /s (20°C)
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

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Explosive limits	: 0,6 – 6,5 vol %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

## **9.2. Other information**

### **9.2.1. Information with regard to physical hazard classes**

No additional information available

### **9.2.2. Other safety characteristics**

No additional information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

### **10.2. Chemical stability**

Stable at ambient temperature and under normal conditions of use.

### **10.3. Possibility of hazardous reactions**

Vapours may form explosive mixture with air.

### **10.4. Conditions to avoid**

Avoid the build-up of electrostatic charge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

### **10.5. Incompatible materials**

Incompatible with strong acids and oxidizing agents. Bases. See Section 7 for information on safe handling.

### **10.6. Hazardous decomposition products**

Reference to other sections 5.2.

## **SECTION 11: Toxicological information**


### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity : Harmful if inhaled.

<b>Fuels, diesel, no. -2 (68476-34-6)</b>	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 5000 mg/kg
LC50/inhalation/4h/rat	4,1 mg/l

Skin corrosion/irritation : Causes skin irritation.  
pH: Not applicable



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Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
Effects on fertility :  
NOAEL, Dermal, Rat: 500 mg/kg bodyweight/day  
NOAEC, Inhalation, Rat: 1710 mg/m<sup>3</sup>  
Developmental toxicity :  
NOAEL, Dermal, Rat: 125 mg/kg bodyweight/day  
NOAEC, Inhalation, Rat: 2110 mg/m<sup>3</sup>

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

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

<b>Fuels, diesel, no. -2 (68476-34-6)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	30 mg/kg bodyweight/day

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

<b>HEATING OIL (68476-34-6)</b>	
Kinematic viscosity	≤ 0,87 mm <sup>2</sup> /s (20°C)

Other adverse effects : May cause damage to organs through prolonged or repeated exposure.  
Suspected of causing cancer.

Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
For further information see section 4.

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **11.2.2 Other information**

Other adverse effects : May cause damage to organs through prolonged or repeated exposure, Suspected of causing cancer.

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4


## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Environmental properties : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

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<b>Fuels, diesel, no. -2 (68476-34-6)</b>	
LC50 - Fish [1]	65 mg/l (96h)
EC50 - Crustacea [1]	68 mg/l (48h)
ErC50 algae	22 mg/l
NOEL, Fish	0.083 mg/l
NOEL, Invertebrates	0.2 mg/l

### **12.2. Persistence and degradability**

<b>HEATING OIL (68476-34-6)</b>	
Persistence and degradability	Readily biodegradable.

### **12.3. Bioaccumulative potential**

<b>HEATING OIL (68476-34-6)</b>	
Partition coefficient n-octanol/water	3,9 – 6
Bioaccumulative potential	No additional information available.

<b>Fuels, diesel, no. -2 (68476-34-6)</b>	
Partition coefficient n-octanol/water	> 3

### **12.4. Mobility in soil**

<b>HEATING OIL (68476-34-6)</b>	
Mobility in soil	No data available
Ecology - soil	No data available.

### **12.5. Results of PBT and vPvB assessment**


<b>HEATING OIL (68476-34-6)</b>	
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. Endocrine disrupting properties**

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **12.7. Other adverse effects**

Other adverse effects : No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)

: This material and its container must be disposed of as hazardous waste  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities  
The following Waste Codes are only suggestions:  
130701 - fuel oil and diesel  
150110 - packaging containing residues of or contaminated by dangerous substances


### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1202	1202	1202	1202	1202
<b>14.2. UN proper shipping name</b>				
GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT	GAS OIL	Gas oil	GAS OIL	GAS OIL
<b>Transport document description</b>				
UN 1202 GAS OIL / DIESEL FUEL / HEATING OIL, LIGHT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1202 GAS OIL, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1202 Gas oil, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1202 GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1202 GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

#### 14.6. Special precautions for user

Special precautions for user : No data available

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**- Overland transport**

Classification code (ADR) : F1  
 Special provisions : 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 : 

30
1202


  
 Tunnel restriction code : 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

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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  
Number of blue cones/lights (ADN) : 0

**- Rail transport**

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. Maritime transport in bulk according to IMO instruments**

Code: IBC : No data available.


**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	HEATING OIL ; Fuels, diesel, no. -2
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	HEATING OIL ; Fuels, diesel, no. -2
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	HEATING OIL ; Fuels, diesel, no. -2

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40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	HEATING OIL ; Fuels, diesel, no. -2
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HEATING OIL is not on the REACH Candidate List

HEATING OIL is not on the REACH Annex XIV List


### 15.1.2. National regulations

#### France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4734.text	Produits pétroliers spécifiques et carburants de substitution : essences et naphthas ; kérosènes (carburants d'aviation compris) ; gazoles (gazole diesel, gazole de chauffage domestique et mélanges de gazoles compris) ; fioul lourd ; carburants de substitution pour véhicules, utilisés aux mêmes fins et aux mêmes usages et présentant des propriétés similaires en matière d'inflammabilité et de danger pour l'environnement. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4734.1a	1. Pour les cavités souterraines et les stockages enterrés : a) Supérieure ou égale à 2 500 t Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	A	
4734.1b	1. Pour les cavités souterraines et les stockages enterrés : b) Supérieure ou égale à 1 000 t mais inférieure à 2 500 t Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	E	2
4734.1c	1. Pour les cavités souterraines et les stockages enterrés : c) Supérieure ou égale à 50 t d'essence ou 250 t au total, mais inférieure à 1 000 t au total Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	DC	2
4734.2a	2. Pour les autres stockages : a) Supérieure ou égale à 1 000 t Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	A	2
4734.2b	2. Pour les autres stockages : b) Supérieure ou égale à 100 t d'essence ou 500 t au total, mais inférieure à 1 000 t au total Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	E	2
4734.2c	2. Pour les autres stockages : c) Supérieure ou égale à 50 t au total, mais inférieure à 100 t d'essence et inférieure à 500 t au total Quantité seuil bas au sens de l'article R. 511-10 : 2 500 t. Quantité seuil haut au sens de l'article R. 511-10 : 25 000 t.	DC	2

#### Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV)

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German storage class (LGK) : LGK 3 - Flammable liquids  
Hazardous Incident Ordinance (12. BImSchV) : Listed in the 12. BImSchV (Annex I) under: 2.3.3  
Quantity threshold for operational area under § 1 para. 1  
- Sentence 1: 2500000 kg  
- Sentence 2: 25000000 kg

**Netherlands**

Waterbezwaarlijkheid : categorie Z(1) - niet-afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/ mutageniteit/ reprotoxiciteit/ bioaccumulerend vermogen/ toxiciteit of persistentie)  
SZW-lijst van kankerverwekkende stoffen : Fuels, diesel, no. 2 is listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not 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


**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out

**SECTION 16: Other information**

Indication of changes:

1.2	Main use category	Added	
2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
4.2	Inhalation	Modified	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
5.2	Hazardous decomposition products in case of fire	Added	
7.2	Heat and ignition sources	Added	
7.2	Special rules on packaging	Added	
7.2	Packaging materials	Added	
9.2	Information with regard to physical	Added	


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	hazard classes		
9.2	Other safety characteristics	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Added	
15.1	12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	Added	
15.1	German storage class (LGK)	Added	
15.1	Waterbezwaarlijkheid	Modified	
16	Other information	Modified	
16	Training advice	Added	
	Exposure scenarios	Modified	

Abbreviations and acronyms:

	DNEL = Derived No Effect Level
	DMEL = Derived Minimal Effect level
	PNEC = Predicted No Effect Concentration
	OEL-STEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	TWA = time weighted average
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	NOEL = no-observed-effect level
	NOEC = No observed effect concentration
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	EWC = European waste catalogue
	NA = Not applicable
	N.O.S. = Not Otherwise Specified
	VOC = Volatile organic compounds
	mg/kg BW = mg/kg bodyweight
	QSAR = Quantitative structure-activity relationship (QSAR)



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	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	ABM = Algemene beoordelingsmethodiek
	BTT = Breakthrough time (maximum wearing time)
	NOEL: no-observed-effect level
	STOT = Specific Target Organ Toxicity

Sources of key data used to compile the : European Chemicals Bureau, CSR, SDS supplier. datasheet


Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Full text of use descriptors

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC5	Use at industrial site leading to inclusion into/onto article
ERC6a	Use of intermediate
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC6c	Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC6d	Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC7	Use of functional fluid at industrial site
ERC9a	Widespread use of functional fluid (indoor)

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ERC9b	Widespread use of functional fluid (outdoor)
ESVOC SPERC 1.1b.v1	Distribution: Industrial (SU3)
ESVOC SPERC 2.2.v1	Formulation & packing of preparations and mixtures: Industrial (SU10)
ESVOC SPERC 6.1a.v1	Manufacture of substances: Industrial (SU8, SU9)
ESVOC SPERC 7.12a.v1	Use as a fuel: Industrial (SU3)
ESVOC SPERC 9.12b.v1	Use as a fuel: Professional (SU22)
ESVOC SPERC 9.12c.v1	Use as a fuel: Consumer (SU21)
PC13	Fuels
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
PROC14	Tabletting, compression, extrusion, pelettisation, granulation
PROC15	Use as laboratory reagent
PROC16	Use of fuels
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC28	Manual maintenance (cleaning and repair) of machinery
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU9	Manufacture of fine chemicals

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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