

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Trade name: Diesel fuel  
Name of the Substance: Fuels, diesel  
EC No. 269-822-7  
CAS No. 68334-30-5  
Index No. 649-224-00-6  
REACH Registration No. 01-2119484664-27-0051

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

Relevant identified uses: Fuels [PC13].  
Uses advised against: no other use is recommended.

**1.3. Details of the supplier of the safety data sheet****Manufacturer:**

AB ORLEN Lietuva  
Mažeikių St. 75, Juodeikiai village, LT-89453 Mazeikiai District, Lithuania  
Tel.: +370 443 92121  
E-mail address: post@orlenlietuva.lt  
E-mail address of competent person for safety data sheet: REACH@orlenlietuva.lt

**1.4. Emergency telephone number**

Pharmacovigilance and Poison Information Unit (24/7): +370 5 236 2052 or +370 687 53378  
General emergency number in Europe (24/7): 112

**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**  
**Asp. Tox. 1, H304**  
**Skin Irrit. 2, H315**  
**Acute Tox. 4, H332**  
**Carc. 2, H351**  
**Repr. 1B, H360FD**  
**STOT RE 2, H373** (Organs affected: Thymus, liver and bone marrow)  
**Aquatic Chronic 2, H411**

For full text of hazard classes, category codes, hazard- and EU hazard-statements see SECTION 16.

**2.2. Label elements**

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

**Hazard pictogram (-s):**

GHS02



GHS08



GHS07



GHS09

**Signal word:** Danger

**Hazard statements:**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.

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H315 Causes skin irritation.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure (Organs affected: Thymus, liver and bone marrow)

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements (prevention):**

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.

P260 Do not breathe dust/fume/gas/mist/vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statements (response):**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P340 Remove person to fresh air and keep comfortable for breathing.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P352 Wash with plenty of water.

P361 Take off immediately all contaminated clothing.

**Precautionary statements (storage):**

P405 Store locked up.

**Precautionary statements (disposal):**

P501 Dispose of contents/ container to in accordance with national regulation.

**Supplemental hazard information:** not applicable.

**2.3. Other hazards**

Does not contain any substances assessed to be a PBT or a vPvB or having endocrine disrupting properties with concentration equal to or greater than 0.1 %.

Product is a flammable liquid. Light hydrocarbons evaporate slowly. The vapour is irritating to respiratory tract. Large amount of product vapour inhaled may cause chemical intoxication.

Risk of soil and ground water contamination.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Substance identifier	Weight % content	Classification according to Regulation (EC) No 1278/2008 (CLP)
Fuels, diesel EC No. 269-822-7 CAS No. 68334-30-5 Index No. 649-224-00-6 REACH Registration No. 01-2119484664-27-0051	Up to 100	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Acute Tox. 4, H332 Carc. 2, H351 Repr. 1B, H360FD STOT RE 2, H373 (Organs affected: Thymus, liver and bone marrow) Aquatic Chronic 2, H411



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Bio-components:

FAME

CAS No. 67762-38-3

EC No. 267-015-4

HVO

CAS No. 928771-01-1

EC No. 618-882-6

0 – 7

Other additives

0 – 0.25

Contains substances for which workplace exposure limit value is established. Occupational exposure limits, if available, are listed in SECTION 8.

For full text of H-statements, see SECTION 16.

### 3.2. Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Spillages make surface slippery.

Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply.

Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.

#### Inhalation

Inhalation at ambient temperature is unlikely because of the low vapour pressure of the substance. Exposure to vapours may however occur when the substance is handled at high temperatures with poor ventilation. In case of symptoms arising from inhalation of fumes or mists or vapours: remove casualty to a quiet and well ventilated place if safe to do so.

If casualty is unconscious and:

- Not breathing – ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical assistance.

- Breathing – place in the recovery position. Administer oxygen if necessary.

Obtain medical assistance if breathing remains difficult.

#### Skin Contact

Immediately remove contaminated clothing and footwear and dispose of safely. Wash affected area thoroughly with soap and water. Seek medical attention if skin irritation, swelling or redness develops and persists.

When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop.

For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided.

#### Eye Contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

#### Ingestion

Incidental oral exposure: aspiration hazard; may be fatal if it enters the airways after swallowing.

IF SWALLOWED: The casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Do not induce vomiting as there is high risk of aspiration (chemical pneumonia). Gastric lavage should be undertaken only after endotracheal intubation.

Do not give anything by mouth to an unconscious person.

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



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Inhalation of high concentrations of vapours may cause irritation of the respiratory tract due to excess fume, mists or vapour exposure. May cause: headache, nausea, and dizziness. Acute, high dose exposure may cause: central nervous system depression, confusion, altered mental status, seizures and cardiac arrhythmias.

Skin contact – reddening, irritation.

Eye contact – May cause mild reversible eye irritation.

Ingestion – few or no symptoms expected. If any, nausea and diarrhea might occur. In case of ingestion, always assume that aspiration has occurred. Aspiration hazard; may be fatal if it enters the airways after swallowing.

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

Treatment according to symptoms. In case of ingestion, always assume that aspiration has occurred. Do NOT induce vomiting. If vomiting does occur, have victim lean forward to reduce risk of aspiration.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media:

- Foam (specifically trained personnel only),
- Water fog (specifically trained personnel only),
- Dry chemical powder,
- Carbon dioxide,
- Inert gases (subject to regulations),
- Sand or earth,
- Steam.

#### Unsuitable extinguishing media:

Do not use direct water jets on the burning product; they could cause splattering and spread the fire.

Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

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

#### Combustion Products

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

If sulfur compounds are present in appreciable amounts, combustion products may include also H<sub>2</sub>S and SO<sub>x</sub> (sulfur oxides) or sulfuric acid.

#### Specific Hazards

If tanks or containers with product are exposed to fire, there is a hazard of explosion and fire due to increased pressure inside the vessel. If spillage of product occurs, the mixture of hydrocarbon vapours and air may explode or ignite on sparks or heated surfaces. Tanks and containers with product, which are in the direct vicinity of the fire, should be cooled by water jets from the safe distance.

This substance will float and can be reignited on surface water.

### 5.3. Advice for firefighters

Use proper breathing apparatus, self-contained gas masks and impervious protective clothes. In case of a large fire or in confined or poorly ventilated spaces wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

### 6.1.1. For non-emergency personnel

Stop or contain leak at the source if safe to do so. Avoid direct contact with released material. Stay upwind. In case of large spillages, alert occupants in downwind areas.

Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares).

If required, notify relevant authorities according to all applicable regulations.

### 6.1.2. For emergency responders

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons.

NOTE: gloves made of PVA are not water-resistant, and are not suitable for emergency use. Work helmet. Antistatic non-skid safety shoes or boots. Goggles or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H<sub>2</sub>S) or a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Product is flammable liquid, any spillage or leak is a severe fire or explosion hazard.

## 6.2. Environmental precautions

### Spillages onto Land

Prevent product from entering sewers, rivers, waterways or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials.

Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct jets.

When inside buildings or confined spaces, ensure adequate ventilation.

### Spillages on water or at sea

Stop or contain leak at the source if safe to do so. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment.

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

### Spillages onto Land

Absorb spilled product with suitable non-combustible materials. Collect free product with suitable means. Transfer collected product and other contaminated materials to suitable containers for recycle, recovery or safe disposal.

In case soil contamination, remove contaminated soil and treat this in accordance with local regulations.

### Spillages on Water or at Sea

Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal.

### Additional information

NOTE: recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

Spillages of limited amounts of products, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which are unlikely to entail exposure to dangerous concentrations. A possible exception may regard the build-up of dangerous concentrations in



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specific spots, like trenches, depressions or confined spaces. In all these circumstances, however, the correct actions should be assessed on a case-by-case basis.

### 6.4. Reference to other sections

See SECTION 8 for Exposure controls/personal protection. See SECTION 13 for Disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Obtain special instructions before use. Ensure that all relevant regulations regarding explosive atmospheres, and handling and storage facilities of flammable products, are followed.

A specific assessment of inhalation risks from the presence of H<sub>2</sub>S in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases must be made to help determine controls appropriate to local circumstances.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Use and store only outdoors or in a well-ventilated area. Avoid contact with the product.

Avoid release to the environment.

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

#### Handling

Take precautionary measures against static electricity. Ground/bond containers, tanks and transfer/receiving equipment. Use non-explosive electrical, ventilation and lighting equipment. Use only non-sparking tools.

The vapour is heavier than air. Beware of accumulation in pits and confined spaces.

Do not use compressed air for filling, discharging, or handling operations.

Avoid contact with skin and eyes. Do not ingest. Avoid breathing vapours. Use personal protective equipment as required.

#### Storage

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation.

Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills.

Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability.

Store separately from oxidising agents.

#### Recommended and Unsuitable Materials for Storage

Recommended materials: For containers, or container linings use mild steel, stainless steel.

Unsuitable materials: some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

#### Container Advice

If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product. Keep containers tightly closed and properly labelled. Protect from the sunlight.

Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability/explosion hazards. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.

#### Hygiene measures

Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplace and should never be kept inside the pockets. Keep away

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from food and beverages. Do not eat, drink or smoke while using this product. Wash the hands thoroughly after handling. Change contaminated clothes at the end of working shift.

**7.3. Specific end use(s)**

Product is used as a fuel in compression ignition (diesel) internal combustion engines and as a heating fuel.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

**Substances for which occupational exposure limit values need to be controlled in the work environment:**

Fuels, diesel, CAS No. 68334-30-5

Lithuanian Hygiene Standard HN 23:2011: not established.

**Exposure Limits**

Comply with established national occupational exposure limits. Where not established, the following short-term exposure limit is recommended – 500 mg/m<sup>3</sup>.

Substance: Fuels, diesel CAS No. 68334-30-5					
State	Limit value – Eight hours		Limit value – Short term		Legal basis
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Belgium		100 <sup>(1)</sup>			Source: GESTIS International Limit Value Database
Canada		100 <sup>(1)</sup>			Source: GESTIS International Limit Value Database
Ireland		100			Source: GESTIS International Limit Value Database
Romania		700		1000 <sup>(1)</sup>	Source: GESTIS International Limit Value Database
Remarks					
Belgium	<sup>(1)</sup> Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air.				
Canada	<sup>(1)</sup> Inhalable aerosol and vapour				

**Biological limit values (BLV)**

No biological limit value has been established for this substance.

**Recommended monitoring procedures**

Standard monitoring procedures must be followed.

Follow the monitoring measures applied in the country.

**Derived No Effect Level DNEL**

Derived No Effect Level (DNEL) or other conclusions of hazardous health effects:

Route of exposure	Type of exposure	Hazard assessment conclusion	Most sensitive endpoint
Workers			
Systemic effects			
Inhalation	Long term exposure	DNEL 68.34 mg/m <sup>3</sup>	Developmental toxicity / teratogenicity (dermal)
Inhalation	Acute/short term exposure	DNEL 4288 mg/m <sup>3</sup>	Acute toxicity (inhalation)
Dermal	Long term exposure	DNEL 2.91 mg/kg bw/day	Repeated dose toxicity (Dermal)

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Dermal	Acute/short term exposure	No hazard identified	
Local effects			
Inhalation	Long term exposure	No hazard identified	
Inhalation	Acute/short term exposure	No hazard identified	
Dermal	Long term exposure	High hazard (no threshold derived)	
Dermal	Acute/short term exposure	Low hazard (no threshold derived)	
Eyes	Local effects	No hazard identified	
General Population			
Systemic effects			
Inhalation	Long term exposure	DNEL 20.22 mg/m <sup>3</sup>	Developmental toxicity / teratogenicity (dermal)
Inhalation	Acute/short term exposure	DNEL 2572.8 mg/m <sup>3</sup>	Acute toxicity (inhalation)
Dermal	Long term exposure	DNEL 1.25 mg/kg bw/day	Repeated dose toxicity (Dermal)
Dermal	Acute/short term exposure	No hazard identified	
Oral	Long term exposure	DNEL 1.25 mg/kg bw/day	Repeated dose toxicity (Dermal)
Oral	Acute/short term exposure	No hazard identified	
Local effects			
Inhalation	Long term exposure	No hazard identified	
Inhalation	Acute/short term exposure	No hazard identified	
Dermal	Long term exposure	High hazard (no threshold derived)	
Dermal	Acute/short term exposure	Low hazard (no threshold derived)	
Eyes	Local effects	No hazard identified	

**Predicted No Effect Concentrations PNEC**

Substance is a hydrocarbon UVCB: technically, the PNEC is not determined or cannot be determined.

**8.2. Exposure controls**

**8.2.1. Appropriate engineering controls**

Reduce exposure by using closed systems, sufficient general and local ventilation. If exposure is likely, restrict access to area. Provide training for staff.

During various technical and process operations gasoline vapour may be emitted into the environment, therefore the concentration in working environment air shall be controlled to the minimum allowed limit.

**8.2.2. Individual protection measures, such as personal protective equipment**

**a) Eye/face protection**

Wear safety glasses in circumstances where eye contact may occur (e.g. acc. to EN 166). Do not use contact lenses.



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#### b) Skin protection

##### i) Hand protection

Use oil product resistant gloves (tested and compliant to EN374). Check before use. Use only with clean hands. Contaminated gloves should be replaced. Always seek advice from glove suppliers for use, storage, care and replacement of gloves.

##### ii) Other

Wear protective clothes (according to EN 465) and other protection equipment. Protective clothing should be regularly inspected and maintained.

#### c) Respiratory protection

If during operations the exposure of employees to large amounts of product vapour and gas is inevitable, suitable respiratory protective equipment, such as A2 filtering mask or analogous should be applied (e.g. according to EN 14387). When working in vessel internals or other confined spaces **do not** use filtering masks but the special self-contained protective equipment. Respiratory protection equipment should be selected and used in accordance with the manufacturer's instructions and requirements established by the law.

#### d) Thermal hazards

If applicable, use heat-resistant personal protective equipment.

#### Hygiene measures

Comply with personal hygiene requirements. Wash hands before breaks and after work. Wash immediately in case of skin contact.

#### 8.2.3. Environmental exposure controls

To ensure the compliance of ventilation and process equipment with requirements of environmental legislation, emissions of such equipment are subject to verification. In some cases vapour filtering installations or process equipment modifications may be necessary for the reduction of emission to allowed limit.

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

a) Physical state	Liquid
b) Colour	Clear – yellowish
c) Odour	Typical Diesel Fuel odour
d) Melting point/freezing point	< -5 °C
e) Boiling point or initial boiling point and boiling range	180–360 °C
f) Flammability	Flamable liquid
g) Lower and upper explosion limit	Non explosive
h) Flash point	> 55 °C
i) Auto-ignition temperature	> 225 °C
j) Decomposition temperature	Not applicable
k) pH	Not applicable
l) Kinematic viscosity	2.0–4.5 mm <sup>2</sup> /s (at 40 °C)
m) Solubility	Not applicable to UVCB substances
n) Partition coefficient n-octanol/water (log value)	Not applicable to UVCB substances
o) Vapour pressure	0.4 kPa (at 40 °C)
p) Density and/or relative density	0.82–0.845 g/cm <sup>3</sup> (at 15 °C)
q) Relative vapour density	No data
r) Particle characteristics	Not applicable for liquids

### 9.2. Other information

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

Based on the available data, meets the CLP Regulation criteria as Category 3 Flammable Liquids.



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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

Stable at ambient temperature.

### 10.3. Possibility of hazardous reactions

Hazardous reactions with strong oxidizing agents.

### 10.4. Conditions to avoid

High ambient temperature.

Avoid electrostatic discharges and other ignition sources.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

### 10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition products vary depending on conditions.

Partial decomposition produces fume, carbon dioxide, carbon monoxide and other harmful gases.

Concentration of toxic gas in a confined space or premises may reach a hazardous limit.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### a) acute toxicity

Not classified for acute oral toxicity based on an oral  $LD_{50} > 5000$  mg/kg bw (test method similar to OECD 401).

Based on acute inhalation data, classified as harmful by inhalation, Cat. 4, H332 (harmful by inhalation) with an  $LC_{50}$  of 4.1 mg/l for male and female rats (test method similar to OECD 403).

Not classified for acute dermal toxicity based on a dermal  $LD_{50}$  of  $> 4300$  mg/kg body weight for male and female rabbits, respectively (test method similar to OECD 402).

#### b) skin corrosion/irritation

Classified as irritating to the skin, Cat. 2, H315: Causes skin irritation. Test method similar to OECD 404.

#### c) serious eye damage/irritation

Does not meet the classification criteria based on available data. Test method OECD 405.

#### d) respiratory or skin sensitisation

Does not meet the classification criteria based on available data. Test method OECD 406.

#### e) germ cell mutagenicity

Does not meet the classification criteria based on available data (weight of evidence approach).

#### f) carcinogenicity

Classified as carcinogenic, Cat. 2, H351: Suspected of causing cancer.

Contains relatively high concentrations of polycyclic aromatic compounds (PAC) which considered genotoxic carcinogens. Response may have been mediated by a non-genotoxic mechanism, involving repeated skin damage.

#### g) reproductive toxicity

The substance is classified: Reproductive toxicity, hazard category 1B. May damage fertility. May damage the unborn child.

Experimental data of substance:

Effects on fertility toxicity: adverse effect observed via oral, NOAEL = 100 mg/kg bw/day (OECD 422, rat).



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Effects on developmental toxicity: adverse effect observed via oral, NOAEL = 100 mg/kg bw/day (OECD 422, rat); via dermal, NOAEL = 125 mg/kg bw/day (equivalent or similar to OECD 414, short-term, rat).

#### h) STOT-single exposure

Does not meet the classification criteria based on available data (weight of evidence approach).

#### i) STOT-repeated exposure

Classified as Specific Target Organ Toxicant upon repeated exposure, Cat. 2, H373: May cause damage to organs through prolonged or repeated exposure (Organs affected: Thymus, liver and bone marrow).

Systemic effects following sub-chronic exposure to aerosolised diesel fuel: NOAEC > 1710 mg/m<sup>3</sup> (OECD 413).

Systemic effects following sub-chronic dermal exposure, reflecting dose-related changes in liver and thymus: NOAEL 30 mg/kg bw/day (OECD 411).

Subchronic dermal local effects: NOAEL 125 mg/kg bw/day (OECD 411).

#### j) aspiration hazard

Classified as presenting an aspiration hazard, Cat. 1, H304: May be fatal if swallowed and enters airways. Based on a kinematic viscosity ≤ 20.5 mm<sup>2</sup>/s at 40 °C.

#### Symptoms related to the physical, chemical and toxicological characteristics, delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term toxic effects through the skin can cause minor skin irritation, stinging, and redness. Long-term effects may manifest as allergies, skin sensitization, drying, skin cracking, and carcinogenic effects. Eye contact may cause eye irritation, reversible corneal/retinal damage, redness, increased blinking and lacrimation. Acute/chronic poisoning may manifest as respiratory tract irritation, rapid breathing, nausea, vomiting, headache and dizziness. In exceptional cases, increased blood pressure, spasms, convulsions, weakness in breathing, arrhythmia, impaired coordination, loss of consciousness may occur. After swallowing, there is always a risk of aspiration.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

Not applicable. The substance is not considered an endocrine disruptor.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to aquatic life. Oxygen transfer can also be impaired due to the formed film.

Classified as hazardous to the aquatic environment — Chronic, Cat. 2, H411: Toxic to aquatic life with long lasting effects.

Short term toxicity to fish

The 96 h LL<sub>50</sub> for freshwater fish is 21 mg/l (based on data of similar substances).

Long-term toxicity to fish

The estimated freshwater fish NOEL value is 0.083 mg/l based on mortality.

Short-term toxicity to aquatic invertebrates

EL<sub>50</sub> (daphnia, 48 h) 68 mg/l (based on data of similar substances).

Long-term toxicity to aquatic invertebrates

The estimated freshwater invertebrate NOEL value is 0.2 mg/l based on immobility and numbers of live young produced per adult by Day 21.

Toxicity to aquatic algae and cyanobacteria

ErL<sub>50</sub> (72 h) value 22 mg/l.

Toxicity to microorganisms

The estimated 40 h EL<sub>50</sub> value for *Tetrahymena pyriformis* is >1000 mg/l and the estimated NOEL is 3.217 mg/l.

**12.2. Persistence and degradability**

The substance is considered readily biodegradable.

**12.3. Bioaccumulative potential**

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

**12.4. Mobility in soil**

Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

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

This substance does not contain constituents included in the SVHC candidate list as PBT/vPvB at concentrations above 0.1%.

**12.6. Endocrine disrupting properties**

This material does not contain any hydrocarbon structures that have been identified as having endocrine disrupting properties at concentrations equal to or greater than 0.1%.

**12.7. Other adverse effects**

No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Waste disposed of by decontamination in accordance with national requirements and local regulations or via a licensed waste disposal contractor. Note hazards arising from waste, and undertake required safety measures when handling it. Personnel involved in waste handling should wear personal protective equipment.

Empty storage tanks and railway tank cars may contain product residues; therefore, warning labels are to be retained as a guide to the safe tank handling and waste disposal. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

DO NOT weld, solder and repair in other ways the tanks without proper preparation.

**SECTION 14: TRANSPORT INFORMATION****Labels**

Marine pollutant

**Land transport (ADR-RID)****14.1. UN number or ID number**

1202

**14.2. UN proper shipping name**

UN 1202, DIESEL FUEL

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Environmentally hazardous.

**14.6. Special precautions for user**

Hazard identification No.	30
Classification code	F1
Labels	3
Special provisions	640K, ADR 664
Limited and excepted quantities	5 L
Tunnel restriction code	3 (D/E)

For details on special provisions, see In chapter 3.3 of the ADR / RID regulation.  
See also SECTION 7 of the SDS for handling and storage advice.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**Inland waterway transport (UN RTDG/ADN(R))****14.1. UN number or ID number**

1202

**14.2. UN proper shipping name**

UN 1202, DIESEL FUEL

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Environmentally hazardous.

**14.6. Special precautions for user**

Classification code	F1
Labels	3
Special provisions	640K
Equipment required	PP, EX, A

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**Marine transport (UN RTDG/IMDG)****14.1. UN number or ID number**

1202

**14.2. UN proper shipping name**

UN 1202, DIESEL FUEL

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Environmentally hazardous.

**14.6. Special precautions for user**

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EmS number F-E, S-E  
Limited and excepted quantities 5 L  
IBC instructions IBC03  
1202 is category A for stacking and separation

**14.7. Maritime transport in bulk according to IMO instruments**

IMO tank instructions T1

**Air transport (UN RTDG/CAO/IATA)****14.1. UN number or ID number**

1202

**14.2. UN proper shipping name**

UN 1202, DIESEL FUEL

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Environmentally hazardous.

**14.6. Special precautions for user**

Limited and excepted quantities 10 L  
Special provisions A3

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU / international regulations:**

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 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.
- Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Council Regulation (EC) No 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.



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- Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC.
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC).
- Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work.
- Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
- International Maritime Dangerous Goods Code (IMDG Code).
- European Agreement concerning the International Carriage of Dangerous Goods by Air (IATA).
- Commission Decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council.
- Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC).

### Authorisations and / or restrictions on use:

- Regulation (EC) No 1907/2006 (REACH) Annex XIV List of Authorised Substances:  
Not included.
- Regulation (EC) No 1907/2006 (REACH) Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:  
Not applicable.
- Regulation (EC) No 1907/2006 (REACH) Article 59(10) SVHC (Candidate List of Substances of Very High Concern):  
Not included.
- Seveso III. Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC:  
Annex 1, Part 2, No. 34.

**Note:** any subsequent updates, amendments and/or additions to the legislation should be duly considered. The list of legal acts is not exhaustive.

### 15.2. Chemical safety assessment

Chemical safety assessment has been conducted.

## SECTION 16: OTHER INFORMATION

Revision of safety data sheet: 2025-09-30

Updated: 1, 2, 3, 11, 15 sections.

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
BLV	Biological limit values
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

DNEL	Derived No-Effect Level
EC	EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of Notified Chemical Substances)
EL <sub>50</sub>	Effective loading rate resulting in 50% effect
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EN	European standard of European Committee for Standardization
ErL <sub>50</sub>	Loading Rate of Test Substance (in dilution water) which causes 50% reduction in algal growth rate
EU	European Union
IATA	International Air Transport Association
IBC	Intermediate bulk container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
JT	United Nations
LC <sub>50</sub>	Lethal concentration for 50 % percent of test organisms
LD <sub>50</sub>	Lethal dose for 50 % of test organisms (median lethal dose)
LL <sub>50</sub>	Lethal load for 50 % of the test organisms
LR	Republic of Lithuania
LTEL	Long-term exposure limit value
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEL	Non observed effect level
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no-effect concentration
RCR	Risk characterization ratio
RID	The Regulation concerning the International Carriage of Dangerous Goods by Rail
RTDG	Recommendations on the Transport of Dangerous Goods
REACH	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short-term exposure limit value
STOT	Specific target organ toxicity
UFI	Unique Formula Identifier
UVCB	Substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very Persistent and very Bioaccumulative

**Acronyms and full text of hazard statements:**

Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
Skin Irrit. 2: Skin corrosion / irritation, Hazard Category 2  
Acute Tox. 4: Acute toxicity (inhal.), Hazard Category 4  
Carc. 2: Carcinogenicity, Hazard Category 2  
Repr. 1B: Reproductive toxicity, Hazard Category 1B  
STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment — Chronic Hazard, Category 2  
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.  
H360FD May damage fertility. May damage the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

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**Key literature references and sources for data**

Registration documentation.

Publicly available data from the national limit value databases of the European Chemicals Agency (ECHA), The GESTIS International Limit values Database.

**Training advice**

Employees/users must be trained/familiarized with the relevant safety information provided.

Do not use the product for any purposes other than indicated in the manufacturer's information.

During such use the user may be exposed to unforeseen hazards.

Should you have any questions or doubts regarding SDS, its contents or any other concerns related to safety of the product, please contact us by e mail: [post@orlenlietuva.lt](mailto:post@orlenlietuva.lt)

As the working conditions of the user are unknown, the information provided in this Safety Data Sheet is based on our current level of knowledge and national and community legislation.

The mixture must not be used for purposes other than those specified in Section 1 without first obtaining written instructions for use. It is always the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information contained in this Safety Data Sheet is to be considered as a description of the safety requirements of the mixture and not as a guarantee of its properties.

NOTE: Information provided herein is considered to be accurate as of the date specified below. No warranty is made as to the accuracy or completeness of the data and information provided in this MSDS. Information provided herein serves only as guidelines for safe work, use, processing, storage, and waste handling. It cannot be considered as a warranty or statement of quality. This information applies only to the specific product and may not be suitable for use of the product in combination with any other substances or in any other manner contrary to that described in this document.

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