

Acc. to the Commission Regulation (EU) No. 453/2010

Issue 5

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Mixture

DIESEL FUEL

1 NAME OF MIXTURE AND COMPANY

1.1 Product Identification

Name of the Mixture: Diesel Fuel

EC No. 269-822-7 CAS No. 68334-30-5

REACH Registration No. 01-2119484664-27-0051

1.2 Product Use:

Established use: fuel, heating fuel

1.3 Detailed Information on MSDS Supplier

Manufacturer:

Public Company ORLEN Lietuva

Juodeikiai, LT-89467 Mažeikiai District, Lithuania

Tel.: (370) 443 92121 Telefax: (370) 443 92525

E-mail address: info@orlenlietuva.lt

1.4 Emergency telephone

Public Company ORLEN Lietuva (24 hours a day): + 370 443 92510

POISON CENTER (24 hours a day): +370 5 2362052 or +370 687 53378

2 POSSIBLE HAZARDS

2.1 Classification of Mixture

- **2.1.1** Classification according to Regulation (EC) No. 1272/2008: H226, H332, H315, H304, H351, H373, H411
- **2.1.2** Classification according to Council Directive 67/548/EEC: N, Xi, Xn; Carc. Cat. 3; R20, R38, R40, R51/53 R65.

2.2 Labeling

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

Signal word:

DANGER

Hazard pictograms









GHS02 GH

GHS08

GHS07

GHS09

Hazard Statements:

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.



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H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P331: Do NOT induce vomiting.

P501: Dispose of contents/container to ...

Other hazards

Diesel Fuel is a flammable liquid. Light hydrocarbons evaporate slowly.

The vapour is irritating to respiratory tract. Large amount of Diesel Fuel vapour inhaled may cause chemical intoxication. Diesel Fuel may contain considerable amount (up to 8 % wt) of polycyclic aromatic hydrocarbons. Experimental studies have proven that some of these hydrocarbons may cause cancerous diseases. Long-term and repeated effects may cause skin dryness and cracks.

Toxic to aquatic organisms. May cause long-term adverse effects to aquatic environment. Risk of soil and ground water contamination.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Components:

Component Name	CAS No.	EC No.	REACH Registration No.	Classification acc. to Regulation (EC) No. 1272/2008	Concentration, % m/m
Diesel fuel	68334-30-5	269-822-7	01- 2119484664- 27-0051	H226, H332, H315, H304, H351, H373, H411	Up to 100
FAME	85586-25-0	287-828-8	no date	no date	0 - 7,0
Cetane improver: – 2-Ethylhexyl nitrate	27247-96-7	248-363-6	01- 2119539586 -27-0024	no date	0-0,1
Dye: 1,4-Bis (butylamino)- 9,10-anthraquinone	90170-70-0	290-505-4	no date	no date	0 - 0,00042
or N-Ethyl-1(phenylazo phenylazo)-2- naphthalenamine	no date	260-124-8, 260-913-7	no date	no date	0 – 0,0005
Marker: - N-Ethyl-N-[2-(1-iso butoxyethoxy) ethyl]-4-(phenylazo) aniline	no date	no date	no date	no date	0 – 0,001
Lubricity additive	no date	no date	no date	no date	0 - 0.02
Cold flow improver	no date	no date	no date	no date	0 - 0.04
Anti-static agents Stadis (R) 450	no date	no date	no date	no date	0 – 0,0001
Multifunctional additive	no date	no date	no date	no date	0-0,03



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Component Name	CAS No.	EC No.	REACH Registration No	Classification acc. to Council Directive 67/548/EEC	Concentration, % m/m
Diesel fuel	68334-30-5	269-822-7	01- 2119484664 -27-0051	N, Xi, Xn; Carc. Cat. 3; R20, R38, R40, R51/53, R65	Up to 100
FAME	85586-25-0	287-828-8	no date	R36, R37, R38	0 - 7,0
Cetane improver: - 2-Ethylhexyl nitrate	27247-96-7	248-363-6	01- 2119539586 -27-0024	Xn, N; R20/21/22, R44, R51/53, R66	0-0,1
Dye: 1,4-Bis (butylamino)- 9,10-anthraquinone	90170-70-0	290-505-4	no date	Xi; R36/38	0 – 0,00042
N-Ethyl-1(phenylazo phenylazo)-2- naphthalenamine	no date	260-124-8, 260-913-7	no date	Xn; R40 Xn; R40	0 – 0,0005
Marker: - N-Ethyl-N-[2-(1- iso butoxyethoxy) ethyl]-4-(phenylazo) aniline	no date	no date	no date	no date	0 – 0,001
Lubricity additive	no date	no date	no date	no classification as hazardous	0 - 0,02
Cold flow improver	no date	no date	no date	Xn, N; R40, R51/53, R66, R67	0 – 0,04
Anti-static agents Stadis (R) 450	no date	no date	no date	F, Xn, Xi; R11, R41, R63, R65, R66, R67, R48/20, R52/53	0 – 0,0001
Multifunctional additive	no date	no date	no date	Xi; R36/38, R43, R52/53	0 – 0,03

4 FIRST-AID MEASURES

General Information

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.

Symptoms: irritation of the respiratory tract due to excess fume, mists or vapour exposure.



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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

Symptoms: reddening, irritation.

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.

Eve Contact

Symptoms: slight irritation (unspecific).

Rinse cautiously with water for several 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

Symptoms: few or no symptoms expected. If any, nausea and diarrhea might occur.

In case of ingestion, always assume that aspiration has occurred. 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.

Information to doctor or other competent person providing first aid.

Treatment according to symptoms.

5 FIRE-FIGHTING MEASURES

Flammability

Flammable liquid.

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.



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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 H₂S and SOx (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 of 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.

Protective Equipment 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.

6 ACCIDENTAL RELEASE MEASURES

General Information

Diesel Fuel is flammable liquid, any spillage or leak is a severe fire or explosion hazard. 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 residents 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.

Personal Protective Equipment

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 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.

Environmental Measures and Cleaning Methods

Spillages on to 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 iets.



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When inside buildings or confined spaces, ensure adequate ventilation.

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

In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. 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 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. However, the build-up of dangerous concentrations may occur in 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.

7 HANDLING AND STORAGE

General Information

Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed.

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.

Handling

During product transfer activities (loading and unloading of mobile tanks) and during sampling there is a risk of static electrical discharge, therefore precautionary measures against static electricity shall be taken.

Properly sealed mobile tank cars should be used for Diesel Fuel transportation.

Ground/bond containers, tanks and transfer/receiving equipment. Use only non-sparking tools.

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

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

Use personal protective equipment. Avoid contact with skin and eyesDo not ingest. Avoid breathing vapours.



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Storage

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Store product only in tanks or containers designed for flammable liquids.

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.

Diesel Fuel vapours (gaseous hydrocarbons) can build up in the headspace of tanks, they may ignite at temperatures below flash point, therefore, care should be taken to avoid static electrical discharge and all ignition sources during diesel fuel gauging or sampling from storage tanks.

Store separately from oxidizing agents.

Recommended and Unsuitable Materials for Storage

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

<u>Unsuitable materials</u>: 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 labeled. 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.

Application:

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

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits

National allowed occupational exposure limits should be observed. Where not established, the following short-term exposure limit is recommended:

 -500 mg/m^3 .

Technical measures

In ambient temperatures Diesel Fuel gives off small quantities of vapour, however, during various technical and process operations diesel fuel vapours may be emitted into the environment, therefore the concentration in working environment air shall be controlled to the minimum allowed limit.

Personal Protective Equipment:

Respiratory Protection

If during operations the exposure to large amounts of product vapour and gas is inevitable, then suitable respiratory protective equipment, such as A2 filtering mask or analogous should be applied (e.g. acc. to EN 14387).



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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.

Eye Protection

Wear safety glasses in circumstances where eye contact may occur (e.g. acc. to EN 166).

Skin and Body Protection

Hand Protection

Wear petroleum product resistant gloves (e.g. acc. to EN 420, EN 388, EN 374-2, EN 374-3).

Other Protective Measures

It is necessary to wear protective clothes (e.g. acc. to EN 465) and other protection equipment. Protective clothing should be regularly inspected and maintained.

Special Hygienic Recommendation

Wash hands before breaks and after work.

Environmental Impact Control

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, colour, odour

Clear yellowish liquid with typical Diesel Fuel odour.

Important Safety Information

pH Insignificant information.

Distillation temperatures range180 - 360 °C.Flash point> 55 °C.Self-ignition temperature> 225 °C.Explosion concentration in air2 - 3% v/v.Vapour pressure ~ 0.4 kPa.

Density at 15°C $800 - 845 \text{ kg/m}^3$. **Viscosity, kinematic at 40 °C** $2,0-4,5 \text{ mm}^2/\text{s}$. **Solubility in water** water insoluble.

10 STABILITY AND REACTIVITY

Stability

Stable at ambient temperature.

Conditions to Avoid

High ambient temperature.

Avoid static electrical discharges and other ignition sources.

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Materials to Avoid

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition products vary depending on conditions.

Partial decomposition produces fume, carbon dioxide, carbon monoxide and other harmful gases. Toxic gas concentration in a confined space or premises may reach a hazardous limit.

11 TOXICOLOGICAL INFORMATION

Sources of Exposure

Diesel Fuel may affect human body through skin, if inhaled and swallowed.

Acute Health Effects

Diesel Fuel vapour is slightly irritating to eyes, nose and throat. Unlikely to cause more than transient stinging if accidental eye contact with liquid Diesel Fuel occurs. Likely to result in light irritation if splashed on the skin.

Unlikely to cause harm if swallowed in small doses, though larger quantities may cause nausea and diarrhea.

Experimental acute toxicity data:

Acute oral $LD_{50} > 7600 \text{ mg/kg}$,

Acute inhalation $LC_{50} > 4.1 \text{ mg/l}$,

Acute dermal $LD_{50} > 4300 \text{ mg/kg}$.

Chronic Health Effects

Repeated or prolonged contact with skin may cause dermatitis. If product contains high level of PCA's, prolonged or repeated skin contact may result in irreversible skin disorders including cancer. Experimental chronic toxicity data:

Short-term repeat dose dermal NOAEL 0,5 ml/kg,

Sub-chronic repeat dose dermal NOAEL 30 mg/kg,

Sub-chronic repeat dose inhalation NOAEC > 1710 mg/m³,

Reproductive Toxicity

Experimental Data:

Reproductive toxicity dermal NOAEL 125 mg/kg,

Reproductive toxicity inhalation NOAEC > 401 ppm.

NOTE: Handling diesel fuel in usual conditions causes no toxic hazard.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Diesel fuel is 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.

Experimental Data:

Acute aquatic invertebrates EL₅₀ 68 mg/l

Acute aquatic algae IL₅₀ 22 mg/l

Acute aquatic fish LL₅₀ 68 mg/l



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Long-term invertebrate NOEL₅₀ 0,21 mg/l Long-term fish NOEL₅₀ 0,083 mg/l

Durability and Degradability

The product is inherently biodegradable, 60 % according to 28-day test.

Bio-accumulative Potential

Heavier hydrocarbons of the product are possibly accumulative in organic sediments of water.

Mobility

Depending on ambient temperatures, spillage evaporates slowly from surface soil and water. Product may penetrate the soil causing ground water contamination.

13 WASTE MANAGEMENT

Waste Disposal Methods

Waste is disposed of by de-harming it in accordance with national requirements and local regulations or via a licensed waste disposal contractor. Identify the hazards of waste handling and undertake required safety measures. Personal protective equipment is necessary for waste managing personnel. Empty tanks and tank cars may contain some remaining product, therefore, hazard-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.

14 TRANSPORT INFORMATION

UN number - 1202

Shipping name - Diesel Fuel.

Land Transport

ADR

Hazard class - 3 Packaging group - III

Environmental hazard - environmentally hazardous

RID

Hazard class - 3 Packaging group - III

Environmental hazard - environmentally hazardous

Sea Transport

IMDG

Hazard class - 3
Packaging group - III
Sea pollutant - yes

Air Transport ICAO/IATA

Hazard class - 3 Packaging group - III



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15 REGULATORY INFORMATION

Legislation

Lithuanian:

Commission Regulation (EU) No. 453/2010; Regulation (EC) No. 1272/2008 of the European Parliament and of the Council; Law on Chemical Substances and Preparations of the Republic of Lithuania (*Official Gazette (Valstybės Žinios*), 2000, No. 36-987; 2004, No. 116-4329; 2005, No. 79-2846; 2006, No. 65-2381; 2008, No. 76-3000); Order No. 532 /742 "Regarding Procedure of Classification and Labeling of Hazardous Chemicals and Preparations" issued by the Minister of Environment and Minister of Health Care of the Republic of Lithuania on 19 December 2000 (*Official Gazette*, 2001, No. 16-509; 2002, No. 81-3501; 2003, No. 81(1)-3703, No. 81(2)-3703, No. 81(3)-3703; 2005, No. 115-4196, No. 141-5095; 2008, No. 66-2517); Law of the Republic of Lithuania on Packing and Packing Wastes Management (*Official Gazette*, 2001, No. 85-2968; 2005, No.86-3206; 2008, No.71-2699); Lithuanian Hygienic Norm HN 23:2007 "Concentration Limit Values of Hazardous Chemicals in Working Environment Air. General Requirements" (*Official Gazette*, 2007, Nr.108-4434) approved by Order No. V-827/A1-287 of the Minister of Health Care and the Minister of Social Security and Labor of the Republic of Lithuania on 15 October 2007.

Chemical Safety Assessment

Diesel Fuel chemical safety assessment has been conducted.

16 OTHER INFORMATION

The Material Safety Data Sheet has been reviewed and the data therein were revised and laid out according the requirements of the Commission Regulation (EU) No. 453/2010.

Hazard statements:

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:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P331: Do NOT induce vomiting.

P501: Dispose of contents/container to ...

Risk Phrases According to Council Directive 67/548/EEC:

R20 Harmful by inhaled.

R38 Irritating to skin.

R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.



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Do not use Diesel Fuel for 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 the MSDS, is contents or other issuel related to the material safety, please contact us at the address: *info@orlenlietuva.lt*

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