SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II

Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878)

DIESEL FUEL EFEKT



Issue: 2018-10-15

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Version: 1.0/EN

1/16

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

Trade name: Diesel fuel EFEKT Unique formulation identifier (UFI) of the mixture: 5E00-0021-R00K-TK9C

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

Relevant identified uses: fuel. Uses advised against: no other use is recommended.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Public Company *ORLEN Lietuva* Juodeikiai, LT-89453 Mažeikiai District, Lithuania Tel.: +370 443 92121 E-mail address: <u>post@orlenlietuva.lt</u>

1.4. Emergency telephone number

Poison Information Bureau. In case of poisoning (24/7): +370 52 362052 or +370 687 53378 General helpline 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 STOT RE 2, H373 (Organs affected: thymus, liver and bone marrow) Aquatic Chronic 2, H411 For the full text of Hazard Statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP) Signal word: DANGER Hazard pictogram:



Hazard Statements:

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

- H315: Causes skin irritation.
- H332: Harmful if inhaled.

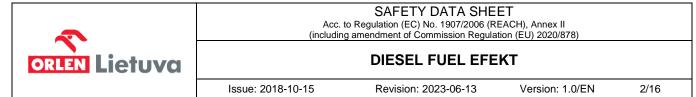
H351: Suspected of causing cancer.

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

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

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

P331: Do NOT induce vomiting.

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

Not applicable.

3.2. Mixtures

Trade name: Diesel fuel EFEKT

Substance Name	Concentration, %	Labelling according to CLP Regulation
Fuels, diesel	Up to 100	Flam. Liq. 3, H226
EC No.: 269-822-7		Asp. Tox. 1, H304
CAS No.: 68334-30-5		Skin Irrit. 2, H315
Index No.: 649-224-00-6		Acute Tox. 4, H332
REACH Registration No.:		Carc. 2, H351
01-2119484664-27-0051		STOT RE 2, H373 (Organs affected:
		thymus, liver and bone marrow)
		Aquatic Chronic 2, H411
Bio-components:	0–7	
FAME		
CAS No.: 67762-38-3		
EC No.: 267-015-4		
HVO		
CAS No.: 928771-01-1		
EC No.: 618-882-6		
Multifunctional additive	0.046	Acute Tox. 4, H302
		Acute Tox. 4, H312
		Acute Tox. 4, H332
		Aquatic Chronic 2, H411
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.

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.

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ORLEN Lietuva		DIESEL FUEL EFE	KT		
	Issue: 2018-10-15	Revision: 2023-06-13	Version: 1.0/EN	3/16	

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 ptoduct 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

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,

SAFETY DATA SHEET
Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II
(including amendment of Commission Regulation (EU) 2020/878)



Issue: 2018-10-15

DIESEL FUEL EFEKT

Revision: 2023-06-13

4/16

Version: 1.0/EN

- Inert gases (subject to regulations),

- Sand or earth.

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_2S and SO_x (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.

This product 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 product. 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_2S) 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

RLEN Lietuva	SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878) DIESEL FUEL EFEKT					
	Issue: 2018-10-15	Revision: 2023-06-13	Version: 1.0/EN	5/16		

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

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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 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 H₂S 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.

	SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878) DIESEL FUEL EFEKT			
orlen Lietuva	Issue: 2018-10-15	Revision: 2023-06-13	Version: 1.0/EN	6/16

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

<u>Recommended materials:</u> 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 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 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^3 .

Substance: Fuels						
CAS No. 68334-3	0-5					
State Limit value – Limit value – Legal basis						
	Eight hours Short term					
	ppm	mg/m ³	ppm	mg/m³		
Belgium		100 ⁽¹⁾			Source: GESTIS International Limit	
					Value Database	
Canada		100 ⁽¹⁾			Source: GESTIS International Limit	
					Value Database	



Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878)

DIESEL FUEL EFEKT

Issue: 2018-10-15

Revision: 2023-06-13 Ver

Version: 1.0/EN 7/16

Ireland	100		Source: GESTIS International Limit Value Database
Romania	700		Source: GESTIS International Limit
			Value Database
Remarks		ation "D" many that the ab	
Belgium			sorption of the agent through the rtant part of the total exposure. It
		of both direct contact and its	
Canada	⁽¹⁾ Inhalable aeros		•
Biologic	al limit values (BLV)		
	gical limit value has beer		
	nended monitoring pro		
	I monitoring procedures e monitoring measures		
Derived	No Effect Level DNEL	applied in the country.	
Derived I	No Effect Level (DNEL)	or other conclusions of haza	ardous health effects:
	Fuels, diesel		
CAS Nr. 683		T	
Route of exposure	Type of exposure	Hazard assessment conc	Iusion Most sensitive endpoint
Workers			
Systemic eff	ects		
Inhalation	Long term exposure	DNEL 68.34 mg/m ³	Developmental toxicity /
	5 1	5	teratogenicity (dermal)
Inhalation	Acute/short term exposure	DNEL 4288 mg/m ³	Acute toxicity (inhalation)
Dermal	Long term exposure	DNEL 2.91 mg/kg bw/day	Repeated dose toxicity (Dermal)
Dermal	Acute/short term	No hazard identified	
Local effects	exposure		
Inhalation	Long term exposure	No hazard identified	
Innalation	Long term exposure	NO Hazaru luentineu	
Inhalation	Acute/short term exposure	No hazard identified	
Dermal	Long term exposure	High hazard (no threshold derived)	1
Dermal	Acute/short term	Low hazard (no threshold	
<u>Fuee</u>	exposure	derived)	
Eyes	Local effects	No hazard identified	
General Pop	oulation		· · · · ·
Systemic eff	ects		
Inhalation	Long term exposure	DNEL 20.22 mg/m ³	Developmental toxicity / teratogenicity (dermal)
Inhalation	Acute/short term exposure	DNEL 2572.8 mg/m ³	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)





DIESEL FUEL EFEKT

Issue: 2018-10-15 Re

Revision: 2023-06-13

8/16

Version: 1.0/EN

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

UVCB hydrocarbon: 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.

b) Skin protection

i) Hand protection

Use oil product resistant gloves (tested and compliant to EN 374). 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 filterring installations or process equipment modifications may be necessary for the reduction of emission to allowed limit.

Avoid release to the environment.



SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II

(including amendment of Commission Regulation (EU) 2020/878)

DIESEL FUEL EFEKT

Issue: 2018-10-15

Revision: 2023-06-13

9/16

Version: 1.0/EN

.1. Information on basic physical and chemical propertie	S
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
κ) pH	Not applicable
I) Kinematic viscosity	2.0–4.5 mm²/s (at 40 °C)
m) Solubility	Not applicable
n) Partition coefficient n-octanol/water (log value)	Not applicable
o) Vapour pressure	0.4 kPa (at 40 °C)
 p) Density and/or relative density 	0.82–0.845 g/cm ³ (at 15 °C)
q) Relative vapour density	No data
r) Particle characteristics	Not applicable for liquids
.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.

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

ORLEN Lietuva	SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878)				
		DIESEL FUEL EFE	КТ		
	Issue: 2018-10-15	Revision: 2023-06-13	Version: 1.0/EN	10/16	

Not classified for acute oral toxicity based on an oral $LD_{50} > 5000 \text{ mg/kg}$ 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 information available currently on reproduction toxicity parameters is insufficient to determine the impact on human fertility. No classification is appropriate at this time.

Developmental studies only observed developmental effects at doses that caused maternal toxicity and the developmental effects cannot be separated from the maternal effects; therefore classification for developmental toxicity is not considered appropriate.

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/m³ (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 \leq 20.5 mm²/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 substances are not considered an endocrine disruptor.



Issue: 2018-10-15

DIESEL FUEL EFEKT

Revision: 2023-06-13

Version: 1.0/EN

11/16

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 LL₅₀ 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

EL₅₀ (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

ErL₅₀ (72 h) value 22 mg/l.

Toxicity to microorganisms

The estimated 40 h EL₅₀ value for *Tetrahymena pyriformis* is >1000 mg/l and the estimated NOEL is 3.217 mg/l.

12.2. Persistence and degradability

Product is considered readily biodegradable.

12.3. Bioaccumulative potential

Product is hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this mixture.

12.4. Mobility in soil

Product is hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this mixture.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This mixture 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.



DIESEL FUEL EFEKT

Issue: 2018-10-15

Revision: 2023-06-13

Version: 1.0/EN

12/16

SECTION 14: TRANSPORT INFORMATI	ION
Labels	
3	
AV.	
$\langle \mathbf{x}_2 \rangle$	
Marine pollutant	
<u>Land transport (ADR-RID)</u> 14.1. UN number or ID number	
1202	
14.2. UN proper shipping name	
UN 1202, DIESEL FUEL (Diesel fi	
14.3. Transport hazard class(es) 3	
3 14.4. Packing group	
14.5. Environmental hazards	
Environmentally hazardous.	
14.6. Special precautions for user	
Hazard identification No.	30
Classification code	F1
Labels	3
Special provisions Limited and excepted quantities	640K, ADR 664 5 L
Tunnel restriction code	3 (D/E)
For details on special provisions, s	see In chapter 3.3 of the ADR / RID regulation.
See also SECTION 7 of the SDS f	
14.7. Maritime transport in bulk acco	ording to IMO instruments
Not applicable	
Inland waterway transport (UN RTD)	<u>G/ADN(R))</u>
14.1. UN number or ID number	
1202	
14.2. UN proper shipping name	
UN 1202, DIESEL FUEL (Diesel fi	UEIEFEKI)
14.3. Transport hazard class(es)	
3 14.4 Packing group	
14.4. Packing group	
14.5. Environmental hazards	
Environmentally hazardous.	
14.6. Special precautions for user	

		SAFETY DATA SHE o Regulation (EC) No. 1907/2006 (R amendment of Commission Regula	EACH), Annex II	
ORLEN Lietuva		DIESEL FUEL EFE	кт	
	Issue: 2018-10-15	Revision: 2023-06-13	Version: 1.0/EN	13/16
Classification code	F1			
Labels	3			
Special provisions Equipment required	640K PP, EX, A			
14.7. Maritime transport in		O instruments		
Not applicable				
Marine transport (UN RTD	G/IMDG)			
14.1. UN number or ID nur				
1202				
14.2. UN proper shipping	name			
UN 1202, DIESEL FUE				
14.3. Transport hazard cla				
3				
14.4. Packing group				
III				
14.5. Environmental hazar	ds			
Environmentally hazard	lous.			
14.6. Special precautions	for user			
EmS number	F-E, S-E			
Limited and excepted q	uantities 5 L IBC03			
IBC instructions 1202 is category A for s		ı		
14.7. Maritime transport in	•			
IMO tank instructions	T1			
Air transport (UN RTDG/IC				
14.1. UN number or ID nur				
1202				
14.2. UN proper shipping	name			
UN 1202, DIESEL FUE	L (Diesel fuel EFEKT)			
14.3. Transport hazard cla	ss(es)			
3				
14.4. Packing group				
III				
14.5. Environmental hazar	ds			
Environmentally hazard				
14.6. Special precautions				
Limited and excepted q Special provisions	uantities 10 L A3			
14.7. Maritime transport in Not applicable	bulk according to IM	O instruments		

SECTION 15: REGULATORY INFORMATION

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

Relevant EU/international legislations:

SAFETY DATA SHEET
Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II
(including amendment of Commission Regulation (EU) 2020/878)



DIESEL FUEL EFEKT

Issue: 2018-10-15 Revision: 2023-06-13 Version: 1.0/EN 14/16

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) 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 (CLP) 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 (REACH) Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste 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 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 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 on the International Carriage of Dangerous Goods by Road / Waterways (ADR / MDG) European Agreement on the International Carriage of Dangerous Goods by Air (IATA) 2000/532/EC: Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes Regulation (EC) No 1907/2006 (REACH): SVHC (Candidate List of substances of very high concern for Authorisation): Not applicable REACH Annex XIV (Authorisation List): Not applicable REACH Annex XVII (Substances restricted under REACH): Not applicable Regulation (EU) No 649/2012 (PIC): Not applicable Regulation (EC) No 850/2004 (POT): Not applicable Regulation (EC) No 1107/2009 (Plant protection products): Not applicable Regulation (EU) No 528/2012 (Biocidal products): Not applicable Regulation (EC) No 648/2004 (Detergents): Not applicable Regulation (EC) No 1005/2009 (OSAM): Not applicable Directive 2004/37/EC (related to exposure to carcinogens or mutagens at work): Not applicable 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: 2023-06-13

Revised: all sections.

During the review of the SDS, the data presented were clarified and arranged in accordance with the European Commission Regulation (EU) No. 2020/878 requirements.

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

~		SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878)				
ORLEN Lietuva			DIESEL	FUEL EFE	кт	
		Issue: 2018-10-15	Revision: 2	2023-06-13	Version: 1.0/EN	15/16
		C) No 1272/2008 of th				on
		labelling and packagir	ig of substance	es and mix	tures	
	Derived No-Ef		ating Commo	raial Chami	aal Substansas) a	
		pean Inventory of Exi		cial Chemi	cal Substances) o	
	· ·	t of Notified Chemical	,			
		ng rate resulting in 50		ving Dongo	roug Coodo	
	• •	esponse Procedures f ndard of European Co	• •			
		of Test Substance (in				n in algal
	growth rate	or rest Substance (in	unution water) which cau		n in aiyai
	European Uni	n				
		Air Transport Associati	on			
	ntermediate b					
		Civil Aviation Organiza	tion			
		laritime Dangerous G				
		Aaritime Organization				
	Jnited Nation	•				
		tration for 50% percer	nt of test ordan	nisms		
		r 50% of test organisr				
		50% of the test organ	•	,		
	Republic of Lit	•				
		osure limit value				
NOAEC	No observed a	adverse effect concen	tration			
NOAEL	No observed a	adverse effect level				
NOEL I	Non observed	effect level				
		or Economic Coopera		lopment		
	,	accumulative and tox	C			
		effect concentration				
	Risk character					
		n concerning the Inter			gerous Goods by	Rail
		tions on the Transport				
	•	ncerning the Registrat	ion, Evaluatio	n, Authorisa	ation and Restricti	on of
	Chemicals					
		posure limit value				
	Jnique Formu	t organ toxicity				
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		using cancer.				
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	iver and bone		- Freidinged (entergano (organ	
		life with long lasting e	ffects.			
Kev liter	ature referen	ces and sources for	data			
•	ion document		•			
Ų		from the national limit	value databa	ses of the E	European Chemica	als Agenc
					•	-
•	The GESTIS	International Limit valu	les Database	•		
•		International Limit valu	les Database			



SAFETY DATA SHEET Acc. to Regulation (EC) No. 1907/2006 (REACH), Annex II (including amendment of Commission Regulation (EU) 2020/878)

Issue: 2018-10-15 Revis

Revision: 2023-06-13

DIESEL FUEL EFEKT

Version: 1.0/EN 16/16

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: <u>post@orlenlietuva.lt</u>

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. Public Company *ORLEN Lietuva* shall not be responsible for any damage or injury resulting from incorrect use of the product or any failure to adhere to recommendations.