



## DIESEL FUEL

### SAFETY DATA SHEET

pursuant to (EC) Directive No. 1907/2006 (REACH) as amended and Commission Regulation (EU) No 2020/878

valid issue: 24. 04. 2023 – version 10(1)

revision: 24.02.2022 - issue 10  
substitutes: 15.03.2018 - issue 9  
original issue: 10.12.1999

## SECTION 1. SUBSTANCE/MIXTURE AND COMPANY/PLANT IDENTIFICATION

### 1.1. Product identifier

Trade name: **Diesel Class B, D, F for Temperate Climates;  
Diesel Class 2 for Arctic Climates**

Alternative names: NM-B, NM-D, NM-F, NM-2 (Arctic Diesel)  
Diesel with FAMEI up to 7% V/V (B7)  
Diesel with FAME up to 10 % V/V (B10)  
Diesel with no FAME (B0)  
Diesel fuel containing HVO

UFI code: H600-T0W6-100M-49N8 (registered to PCN)

### 1.2. Designated use of the substance or mixture and its unrecommended uses

#### 1.2.1. Designated use

Motor diesel is mostly used as a motor fuel for compression-ignition combustion engines. Motor diesel can be used only in compliance with the given operation documentation and for the purposes approved in compliance with the valid legislature.

#### 1.2.2. Unrecommended uses

Motor diesel should not be used for vehicles operated at enclosed worksites, or as cleaning products, for lighting, heating or fire ignition.

### 1.3. Detailed information about the safety data sheet supplier

#### 1.3.1. Business name and identification number

ORLEN Unipetrol RPA s.r.o., Záluží 1, 436 70 Litvínov, Czech Republic

Business Identification Number: 275 97 075

☎: 420 476 161 111

fax: 420 476 619 553

[info@orlenunipetrol.cz](mailto:info@orlenunipetrol.cz)

[www.orlenunipetrolrpa.cz](http://www.orlenunipetrolrpa.cz)

#### 1.3.2. Business location

##### Litvínov Refinery

Záluží 1

436 01 Litvínov

tel.: +420 476 163 567

fax: +420 476 165 086

##### Kralupy Refinery

O. Wichterleho 809

278 01 Kralupy n/Vlt.

+420 315 718 500

+420 315 718 640

#### 1.3.3. Email address of the technically competent persons who is responsible for the safety data sheet:

[reach.unirpa@orlenunipetrol.cz](mailto:reach.unirpa@orlenunipetrol.cz)

### 1.4. Emergency phone number

- CONTROLroom of ORLEN Unipetrol RPA s.r.o. ☎:+420 476 163 111 (NON STOP)
- Toxicological information center (TIS) ☎:+420 224 919 293 (NON STOP)  
Na bojišti 1, 120 00 Prague 2, Czech Republic ☎:+420 224 915 402 (NON STOP)  
e-mail: [tis@vfn.cz](mailto:tis@vfn.cz)
- Transportation information and accident system (TRINS) ☎:+420 476 163 111 (NON STOP)

*Note: Emergency phone numbers for the EU countries are included in section 16*

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## SECTION 2. HAZARD IDENTIFICATION

### 2.1. Substance or mixture classification

The product is classified as hazardous pursuant to Directive (EC) No. 1272/2008 CLP:

FLAMMABLE LIQUID AND VAPOUR, CATEGORY 3; H226

INHALATION HAZARD, CATEGORY 1; H304

ACUTE TOXICITY, CATEGORY 4; H332

SKIN IRRITATION, CATEGORY 2; H315

CARCINOGENICITY, CATEGORY 2; H351

TOXICITY FOR SPECIFIC TARGET ORGANS (REPEATED EXPOSURE), CATEGORY 2; H373

TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, CATEGORY 2; H411

<b>Flam. liq. 3, H226</b>
<b>Asp. Tox. 1, H304</b>
<b>Acute Tox. 4, H332</b>
<b>Skin irit. 2, H315</b>
<b>Carc. 2, H351</b>
<b>STOT Rep Exp. 2, H373</b>
<b>Aquatic Chronic 2, H411</b>

Notice: The full text of the H-statements marked with a code is given in Section 2.2.

### 2.2. Label elements

<i>product identifiers</i>	<b>MOTOR DIESEL</b> NM-B, NM-D, NM-F, NM-2 (ARCTIC DIESEL) index number:
<i>warning hazard symbol</i>	   
<i>signal word</i>	HAZARD
<i>H-sentences (standard hazard sentences)</i> H226 H304 H315 H332 H351 H373 H411	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Harmful if inhaled. Suspected of causing cancer May cause damage to organs through prolonged or repeated exposure Toxic to aquatic life with long lasting effects.
<i>P-instructions (safe handling instructions)</i> P210 P260 P273 P280 P301+P310 P331	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
<i>General instructions for placing the product on the consumer market</i>	P101 Should a medical assistance be necessary, have the corresponding product package or label available P102 Keep out of reach of children P103 Read the information on the label prior to using the product

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Záluží 1, 436 70 Litvínov, Czech Republic  
☎: +420 476 161 111, +420 476 163 111

### 2.3. Other hazards

Information if a given substance or mixture complies with the criteria set for PBT or vPvB substances is included in subsection 12.5.

Motor diesel is a complex mixture of carbohydrates with a boiling point between approximately 180 and 370 °C. It contains polycyclic aromatic carbohydrates of up to 8 % m/m. Due to its low viscosity, motor diesel can damage lungs upon ingestion. It also locally degreases and irritates skin. Its vapors can have narcotic effects, can cause headaches, nausea, eye and airways irritation. It creates an explosive mixture when mixed with the air. The product can accumulate static electricity.

None of the components of the mixture (substance) is included in the Candidate List under Article 59 (1) of the REACH due to endocrine disrupting properties.

The meaning of abbreviations used in this section is given in Section 16.

## SECTION 3. COMPOSITION / INFORMATION ABOUT INDIVIDUAL COMPONENTS

### 3.1. Substances

It is a mixture of substances

### 3.2. Mixtures

NAME	REGISTRATION NUMBER INDEX NUMBER	CAS NUMBER ES NUMBER	CONT ENT [% OF weight ]	CLASSIFICATION CLP
Fuels, motor diesel	01-2119484664-27-0113 649-224-00-6	68334-30-5 269-822-7	≥ 93	Flam. liq. 3, H226, GHS02, Wng Asp. Tox. 1, H304, GHS08, Dgr Acute Tox. 4, H332, GHS07, Wng Skin irit. 2, H315, GHS 07, Wng Carc. 2, H351, GHS08, Dgr STOT Rep Exp. 2, H373, GHS08, Wng Aquatic Chronic 2, H411, GHS09
Methyl esters of fatty acids (FAME)	01-2119471664-32-xxxx -	67762-38-3 267-015-4	≤ 7	-
Renewable hydrocarbons (diesel type fraction) (HVO)	01-2119450077-42-xxxx	928771-01-1 618-882-6	≤ 40	Asp. Tox. 1, H304, GHS08, Dgr

NOTE 1: In order to improve its usable characteristics, motor diesel can also include various additives - ingredients added with the objective to modify the given usable characteristics, such as additives for improving low-temperature characteristics, lubrication additives, corrosion inhibitors, detergents, etc., in concentrations that do not exceed 0.1% (m/m).

NOTE 2: None of the components of the mixture contain nanoform

## SECTION 4. FIRST AID INSTRUCTIONS

### 4.1. First aid description

#### 4.1.1. General instructions

When administering first aid, observe your own safety.

Call for the ambulance (☎155 Czech Republic, ☎120 EU) and observe the provided instructions until its arrival. Secure vitally important functions of the victim. If the victim is not breathing normally even when you tilt his/her head back, conduct resuscitation by pressing his/her chest approximately 5 cm deep with a frequency of 100-120 pushes per minute. If you are trained in rescue breathing, execute 2 inhalations after every 30 pushes of the chest. Do not interrupt the heart massage until the ambulance personnel arrives.

Do not give anything to consume to people who are unconscious or who are experiencing cramps. Put them in the recovery position.

#### 4.1.2. Upon inhalation

Transport the victim to fresh air, do not let him/her become cold and seek medical assistance.

#### 4.1.3. Upon contact with skin

Remove the contaminated clothes and footwear. Thoroughly washed the affected spots with water (ideally lukewarm) and soap. Should the irritation symptoms persist, seek professional medical assistance.

Do not remove the product upon being burned. Cover the affected location with a sterile gauze (or clean fabric) and immediately seek professional medical assistance.

#### 4.1.4. If the products hits eyes

Immediately rinse the eyes by stream of flowing water, open the eyelids (even by force, if necessary); should the victim wear contact lenses, remove them immediately. Seek medical treatment.

#### 4.1.5. Upon ingestion

NEVER INDUCE VOMITING! If the victim is vomiting on his/her own, hold his/her head below his/her hips, thus preventing inhalation of the vomit. Seek medical assistance as fast as possible.

### 4.2. The most important acute and delayed symptoms and effects

Depending on the exposure dose, the substance can cause headache, nausea, dizziness, breathing difficulties or even breathing stoppages, cramps and unconsciousness. Ingestion can cause vomiting and, as a result of that, the vomit can get into lungs (aspiration) and pulmonary edema can occur (chemical pneumonia), which can result in death. Direct contact with eyes or skin can cause their temporary irritation. Longer exposures of skin to the substance can degrease it.

### 4.3. Instructions related to immediate medical assistance and special treatment

Should the product hit eyes or enter airways, medical assistance has to be sought immediately.

## SECTION 5. FIRE EXTINGUISHING MEASURES

### 5.1. Fire extinguishers

Suitable fire extinguishers: Air fire extinguishing foam, fire extinguishing powder, CO<sub>2</sub>.

Unsuitable fire extinguishers: direct water stream.

Extinguishing small fires: powder or foam fire extinguishers, dry sand or fire extinguishing foam.

### 5.2. Special hazards related to the given substance or mixture

Vapors are heavier than the air and they thus accumulate and spread by the ground. If they leak, they can backfire and subsequently explode and/or cause fire even relatively far from the given leak source. This risk is particularly present below the terrain level and in enclosed areas. Their burning can create toxic and irritating smokes that contain carbon monoxide and unburned carbohydrates.

### 5.3. Instructions for fire fighters

Limit penetration of the fire extinguishing liquid polluted with the given substance to the sewerage system, surface and underground water and soil to a minimum.

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Cool the tanks containing the product with water spray because they can explode due to heat.

Do not use foam and water simultaneously since water decomposes the foam.

Protection equipment for the fire fighters: fully protective clothing and insulation breathing apparatus.

## SECTION 6. ACCIDENTAL LEAK MEASURES

### 6.1. People protection measures, protective equipment and emergency procedures

Seal the accident location and prevent access to the endangered area. Stay on the windward side. Leaks of this product can cause fires. That is why you need to remove all possible ignition sources. Do not smoke and do not handle open flame. If possible, ensure adequate ventilation of the enclosed areas. Prevent contact with the substance and its vapors. When rectifying the given extraordinary event/accident consequences, use all the recommended personal protection equipment (see Subsection 8.2). Evacuate all people from the endangered area in the case of larger accidents. If initiated, the substance vapors below the terrain level and in enclosed areas (including the sewerage system space) can explode.

### 6.2. Measures for the protection of the environment

Eliminate any further leaks of the substance and fence off the location. Prevent the substances from leaking into the sewerage system and surface and underground water by covering the sewerage system inlets. Prevent the substance from leaking to soil.

### 6.3. Methods and material for leak limitation and for cleaning

Leaks of this product can cause fire. That is why you should use lights and electric devices that are of a non-explosive design and non-sparking tools. The leaked product should be collected into a suitable, inflammable porous/absorbent material (such as sand, soil, bergmeal, vermiculite) and removed for liquidation in closed containers. Destroy the product in compliance with the valid legal regulations related to waste (see Section 13).

When the product leaks into water in a relatively high quantity, use catchment immersion walls and gather the product from the water surface using surface collectors (separators) or cover the leaked product using a sorbent and remove the saturated sorbent from the surface by racking or vacuuming. Consult experts prior to using dispersing agents.

### 6.4. References to other sections

For recommended personal protection aids, see Subsection 8.2 (“Limiting exposure”).

For recommended waste removal procedures, see Section 13 (“Removal instructions”).

## SECTION 7. HANDLING AND STORAGE

### 7.1. Safe handling measures

Handle the substance as well as empty tanks (they can contain product residues) in well ventilated areas and comply with all fire protection measures (no smoking, not working with open flame, removing all possible ignition sources). Do not conduct activities, such as welding, cutting, grinding, etc., in the proximity of the (even empty) packages. Do not use compressed air for filling, emptying or other handling of the tanks. Eliminate static electricity discharges.

General hygienic measures: Observe the personal hygiene rules. Immediately take off polluted parts of your clothing. Do not smoke, drink or eat while working! Thoroughly wash your hands and uncovered parts of your body by water and soap and, if necessary, apply a suitable reparation cream after work and before eating. Do not bring polluted clothes, footwear and protection equipment to eating areas.

### 7.2. Safe storage conditions for substances and mixtures, including incompatible substances and mixtures

The warehouses have to comply with the given building fire safety requirements and the electric devices have to be in compliance with the valid regulations. Store them in cool, well ventilated areas with adequate exhaust systems outside of the reach of all heat and ignition sources. Storage packages have to be properly closed,

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marked and grounded. We recommend soft and stainless steel as a suitable package material. Do not store them nearby incompatible materials, such as oxidation agents (oxygen, air, etc.), or other flammable materials.

### 7.3. Specific final use

Motor diesel is mostly used as a motor fuel for compression-ignition combustion engines. Motor diesel can be used only in compliance with the given operation documentation and for the purposes approved in compliance with the valid legislature.

They should not be used for vehicles operated at enclosed worksites, or as cleaning products, for lighting, heating or fire ignition. Never pour the product into the sewerage system.

## SECTION 8. LIMITING EXPOSURE / PERSONAL PROTECTION EQUIPMENT

### 8.1. Control parameters

#### 8.1.1. Limit worksite exposure values

Government Directive No. 361/2007 Coll., which determines the occupational health protection conditions, as amended, specifies the following acceptable exposure limits (PEL) and the highest acceptable concentrations (NPK-P) of chemical substances in the air in the Czech Republic:

Name	CAS number	PEL [mg.m <sup>-3</sup> ]	NPK-P [mg.m <sup>-3</sup> ]	Note
Diesel	-	200	1,000	

*Note 1: The meaning of the PEL and NPK-P abbreviations can be found in Section 16.*

*Note 2: The limit exposure values for the worksites throughout the EU countries are stated in Section 16.*

#### 8.1.2. DNEL/DMEL values

DNEL values used for the evaluation:

DNEL (dermal exposure): 1300 µg/kg/day

DNEL (exposure by inhalation): 5714 µg/kg/day or 19.99 mg/m<sup>3</sup>

PNEC (secondary exposure, oral): 8.77 mg/kg

*Note: The meaning of the DNEL and DMEL abbreviations can be found in Section 16.*

#### 8.1.3. PNEC values

PNEC (secondary exposure, oral): 8.77 mg/kg

*Note: The meaning of the DNEL and DMEL abbreviations can be found in Section 16.*

Deriving particular PNEC values based on experimental data acquired by testing the modified water fraction that contains dissolved/emulsified/suspended shares of the tested substance (WAF- "Water accommodated Fraction") is not suitable for UVCB substances of a carbohydrate type. The product environmental risk characteristics were thus determined using the statistic carbon HC5 extrapolation block method utilizing the PETROTOX v.3.05 model.

#### 8.1.4. Recommended procedure for monitoring concentrations at work environments

Recommended procedure for monitoring concentrations at work environments: gas chromatography (GC) with a flame ionization detector (FID) or mass spectrometric detector (MS) pursuant to technical standards ČSN EN 689 and ČSN EN 482.

### 8.2. Limiting exposure

#### 8.2.1. Technical protection measures for limiting exposure of people and of the environment

Protection against undesirable exposure of people and of the environment has to be ensured by maintaining a strict control over the substance utilizing technical means and procedural and control technologies that reduce emissions and subsequent exposure with the objective to prevent release of the vapors into free space, penetration of the substance in water environments and soil and possible exposure of people. Areas where the substance is handled or stored have to be furnished with impermeable floors and catchment basins for accidental leaks of the substance. Overall and local ventilation and effective exhaust are a must.

### 8.2.2. Individual protective measures

Should there be a risk of an increased exposure while handling the product or should the exposure increase, for example, as a result of an accident or an extraordinary event, the employees have to have available personal protection equipment (PPE) for the protection of their airways, eyes, hands and skin, which correspond to the character of the conducted activities. They have to be also equipped with a suitable protection of their airways when the used technical means cannot guarantee compliance with the exposure limits specified for the given work environment or when the exposure of their airways could endanger their health. When using the protective equipment continuously while working, appropriate safety breaks have to be included, provided the character of the given PPE requires it. All PPE has to be continuously maintained in a usable condition. Should it become damaged or polluted, it has to be replaced immediately.

#### RECOMMENDED PERSONAL PROTECTION EQUIPMENT (PPE):

*(particular types of the protective equipment have to be chosen based on the type of the conducted activity and based on the quantity and concentration of the given hazardous substance/mixture at the worksite)*

- **airways protection:** protective mask that complies with EN 143 with a filter that is effective against the effects of organic vapors for areas with insufficient ventilation and/or local exhaust system; insulation breathing apparatus for rectifying the consequences of extraordinary events/accidents;
- **eyes / face protection:** protective goggles that comply with EN 166;
- **hands protection:** chemically resistant gloves tested pursuant to EN 374; the following are some of the suitable materials:

	<i>glove material</i>	<i>layer thickness</i>	<i>penetration time</i>
common work activities (staining possibility)	natural latex	1 mm	120 minutes
leak / accident repair	nitrile	0.4 mm	480 minutes

- **protection of other body parts:** antistatic and inflammable clothes, antistatic footwear;
- **heat hazard:** irrelevant when used as specified.
- **other measures:** we recommend to furnish the worksite with a safety shower and an eye rinsing mechanism.

### 8.2.3. Limiting the exposure of the environment

Prevent product leaks to the environment by employing all available means. See Section 6.2.

## SECTION 9. PHYSICAL AND CHEMICAL CHARACTERISTICS

### 9.1. Information about the basic physical and chemical characteristics

The information has been adopted from the corresponding registration documentation, unless stated otherwise.

attribute	unit	value	source/method	note
state of matter		liquid	CSR	at 20°C
colour		colorless, slightly yellowish to yellow or with greenish opalescence		
odour		typical petroleum		
melting point / freezing point	[°C]	-40 - +6	CSR	

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attribute	unit	value	source/method	note
initial boiling point / boiling point range	[°C]	141-462	CSR	influence of variable composition of UVCB
flammability		the mixture is flammable	CSR	
upper explosive limit	%	6,5	GESTIS	
lower explosive limit	%	0,6	GESTIS	
flash point	[°C]	>56	CSR	
spontaneous ignition temperature	[°C]	>225	CSR	
decomposition temperature		does not decompose at normal operating temperatures		CSR does not state
pH		not relevant (non-polar substances)		CSR does not state
viscosity kinematic	[mm <sup>2</sup> .s <sup>-1</sup> ]	≥1,5	CSR	40°C
solubility in water	[mg.l <sup>-1</sup> ]	slight	CSR	
relative density	water=1	0,8-0,91	CSR	at 15°C
distributive coefficient: n-octanol/water	[log K <sub>oc</sub> ]	1,71 – 14,7	CSR	
vapour pressure	[kPa]	0,4	CSR	at 40°C
relative vapour density	air=1	3,5	American Petroleum Institute (API)	CSR does not state
particle characteristics		-		not applicable - it is a liquid

## 9.2. Other information

- 9.2.1. Information concerning physical hazard classes  
Extremely flammable liquid
- 9.2.2. Other safety characteristics  
Not available.

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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

The product is stable under normal conditions.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous chemical reactions

It can release carbon monoxide when burning in an environment with a lack of oxygen.

### 10.4. Conditions that have to be avoided

Concentrations within the explosion limits, presence of ignition sources, contact with open flame.

### 10.5. Incompatible materials

Oxidation agents.

### 10.6. Hazardous disintegration products

None under normal conditions; carbon monoxide and soot can be created when burning in an environment with a lack of oxygen.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information about toxicological effects

#### 11.1.1. Toxicological effects of the substance/mixture

HAZARD CLASS	DATA FROM THE REGISTRATION DOCUMENTATION		EVALUATION
	DESCRIPTION	RESULT	
Acute toxicity	oral (OECD 401): inhalation (OECD 403): dermal (OECD 404):	LD <sub>50</sub> = 17900 mg/kg LC <sub>50</sub> = 4100 mg/m <sup>3</sup> LD <sub>50</sub> = 4300 mg/kg	it complies with the classification criteria
Causticity / irritant effect for skin	product tests and tests of the included components (OECD 404)	2.96	it complies with the classification criteria
Serious damage / eye irritation	product tests and tests of the included components (OECD 405)	-	it does not comply with the classification criteria
Sensibility	product tests and tests of the included components (OECD 406)	the product and its components do not cause allergic reactions	it does not comply with the classification criteria
Mutagenicity in reproductive cells	OECD 476	based on the included components, the substance is not assessed as possibly toxic for reproduction abilities.	it does not comply with the classification criteria
Carcinogenicity	tests	The categorization complies with the harmonized classification	it complies with the classification

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HAZARD CLASS	DATA FROM THE REGISTRATION DOCUMENTATION		EVALUATION
	DESCRIPTION	RESULT	
		assigned to most members of this category, as stated in Appendix VI of the directive.	criteria
Toxic for reproduction	1/ fertility: 2/ prenatal development toxicity:	There are no data available, which would suggest that the substance is toxic for reproduction	it does not comply with the classification criteria
STOT – one-time exposure	acute toxicity tests (oral, dermal, inhalation)	no toxic effects have been determined during the tests	it does not comply with the classification criteria
STOT – repeated exposure	1/ oral: 2/ inhalation: 3/ dermal	The motor diesel components can cause system changes after repeated skin exposure	it complies with the classification criteria
Inhalation hazard		when the product is ingested or when it enters the airways while its kinematic viscosity is below 20.5 mm <sup>2</sup> /s (40 °C), it damages lungs and can cause death	it complies with the classification criteria

#### 11.1.2. Information about probable exposure ways

The exposure can occur by inhalation, accidental ingestion or penetration of individual components through skin.

#### 11.1.3. Symptoms and effects (acute, delayed and chronic after short-term as well as long-term exposure)

Depending on the exposure dose, the substance can cause headaches, sore throat, cough, breathing difficulties, chest pressure, disturbances of the central nervous system, nausea, sleepiness and dizziness. The related difficulties can be demonstrated by belly cramps, spontaneous vomiting or diarrhea. Direct contact with eyes or skin can cause temporary irritation manifested by reddening or swelling of the affected spot, or eye tearing, reddening and swelling. Longer exposures of skin to the substance can decrease it and cracks can appear. The substance can cause or support creation of cancer. When handling the hot (heated) product, you can get burned, which is usually manifested by hurting and reddening of your skin or, in more serious cases, by blisters.

#### 11.1.4. Interactive effects

No interactions occur if the product is used appropriately.

### 11.2. Information on other hazards

None of the components of the mixture is not included in the Candidate List under Article 59 (1) of the REACH (due to endocrine disrupting properties or for any other reason).

## SECTION 12. ENVIRONMENTAL INFORMATION

### 12.1. Toxicity

Water environment	fish	LL <sub>50</sub> (96 h, fish) = 21.0 mg/l	
	invertebrates	EL <sub>50</sub> (48 h, invertebrates) = 68.0 mg/l	Daphnia magna
	seaweed	EL <sub>50</sub> (72 h, seaweed) = 22.0 mg/l	
Microbiological activity (waste water treatment)	activated sludge	The substance is a UVCB carbohydrate. The standard tests have been designated for individual substances and are suitable for assessing risks of this complex substance. In order to assess	

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plant)	individual risks, the sediment PNEC for carbohydrate substances were derived using water PNEC and the balanced partition method (EqP), utilizing representative structures.
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*Note: Significance of the EL<sub>50</sub> and LL<sub>50</sub> abbreviations is included in Section 16.*

### 12.2. Persistence and degradability

The assessment of the representative carbohydrate structures indicates some structures that can comply with the P or vP criteria.

Biodegradability pursuant to CEC approximately 50 – 60%.

Because of the complex composition of this substance, its potential biodegradability cannot be estimated using quantitative models of the relations between the structure and biodegradability.

### 12.3. Bioaccumulation potential

The assessment of the representative carbohydrate structures indicates some structures that can comply with the B criteria, but none that can comply with the vB criteria.

### 12.4. Mobility in the soil

Log Koc values were calculated for individual product components. They range between 1.71 and 14.70.

### 12.5. PBT and vPvB assessment results

It is not suitable to compare this UVCB substance of a hydrocarbon type with the criteria pursuant to Appendix XIII to Directive (EC) No. 1907/2006 REACH, as a whole. That is why individual components were assessed with the conclusion that the product complies with the T criterion, however it complies neither with the persistence and bioaccumulation criteria, nor with the high persistence and high bioaccumulation criteria pursuant to Appendix XIII to Directive (EC) No. 1907/2006 REACH. That is the reason why the product is not identified as a PBT substance (P-persistent, B-bioaccumulative, T-toxic) or vPvB substance (vP-highly persistent, vB-highly bioaccumulative).

### 12.6. Endocrine disrupting properties

None of the components of the mixture is included in the Candidate List under Article 59 (1) of the REACH due to endocrine disrupting properties.

### 12.7. Other negative impacts

It creates a homogenous layer on water surface, which prevents oxygen access. Pursuant to Appendix 1 to Water Act No. 254/2001 Coll., the product is considered hazardous and harmful substance.

It does not contain ozone-harming substances pursuant to the Montreal Protocol and its Copenhagen Amendment.

## SECTION 13. REMOVAL INSTRUCTIONS

### 13.1. Waste management methods

When product residues need to be removed (for example, unused or leaked product), the valid European Union legislature, national legislature and valid local regulations have to be observed. Hand the waste over for removal to an appropriately qualified person with the appropriate authorization.

Recommended waste classification pursuant to Regulation No. 93/2016 Coll. (Waste Catalogue)

#### 13.1.1. Catalogue number

Catalogue number for the product that has become waste:

13 07 01\* Heating oil and motor diesel

07 01 04\* Other organic solvents, washing liquids and mother lyes.

16 03 05\* Organic waste containing dangerous substances

Catalogue number for the leaked product absorbed by an absorption agent (such as vapex):

15 02 02\* Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths,

protective clothing contaminated by dangerous substances.

Catalogue number for soil polluted with the leaked product:

17 05 03\* Soil and stones containing dangerous substances.

13.1.2. Recommended waste removal method

Hand the unused product residues over for removal to an appropriately qualified person with the appropriate authorization. Recommended removal method: Energy utilization (combustion).

13.1.3. Substance liquidation methods

Waste and unused residues are liquidated in compliance with the valid waste legislature, usually by incineration in incineration plants designed for this purpose. Disposal to dump sites is not suitable.

13.1.4. Contaminated packaging liquidation methods

Motor diesel is usually supplied in railroad cars or road tankers. Decontamination and liquidation of such packaging material is governed by the ADR/RID regulations.

*NOTE: the stated information applies to the delivered, still unused material. Should an already used material become waste, it is up to the waste originator to assign a code to it pursuant to the given field and usage process and to determine its liquidation method.*

## SECTION 14. TRANSPORT INFORMATION

**14.1. UN number or ID number**

1202

**14.2. Official (UN) transport name**

MOTOR DIESEL, complying with standard EN 590

**14.3. Transport hazard class/classes**

3

**14.4. Packaging group**

III

**14.5. Environmental hazard**

ENDANGERING THE ENVIRONMENT  
ENVIRONMENTALLY HAZARDOUS

**14.6. Special safety measures for the users**

None.

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

Irrelevant. The product is transported in railway tankers, road tankers or via pipelines.

**14.8. Other information**

Hazard number: 30

Classification code: F1

Safety symbol: 3



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## SECTION 15. REGULATION INFORMATION

### 15.1. Regulations related to safety, health and the environment / specific legal regulations related to the given substance or mixture

#### 15.1.1. European Union

EP and Council (EC) Directive No. 1907/2006 (REACH) as amended

REGISTRATION (HEAD II OF THE REACH DIRECTIVE):

*the product components have been fully registered as the substance*

APPROVAL PROCESS (HEAD VII OF THE REACH DIRECTIVE)

*the product components are not listed on the list of substances included in Appendix XIV of Directive (EC) No. 1907/2006 REACH and the approval obligation thus does not apply to them*

LIMITATIONS (HEAD VIII OF THE REACH DIRECTIVE):

*the product must not be placed on the market for being sold to the public, with the exception of cosmetic products, medicines and fuels defined in more detail in record 28 of Appendix XVII of Directive (EC) No. 1907/2006 REACH*

EP and Council (EC) Directive No. 1272/2008 (CLP), as amended

*the product has been classified in compliance with the above stated directive; the obligations related to packaging and package marking of hazardous chemical substances apply to the product only if it is put on the market in packages that are subject to the marking obligation pursuant to Directive CLP Regulation (EU) 2017/542 of the European Parliament and of the Council - Annex VIII. (CLP) - harmonized information on responding to health threats.*

*The required information on the hazardous mixture was provided via the ECHA Submission Portal - Poison Centers (PCN).*

EP and Council (EC) Directive No. 649/2012 on exporting and importing hazardous chemical substances, as amended

*the product is not subject to any special export or import limitations*

#### 15.1.2. Czech Republic

Act No. 350/2011 Coll. on chemical substances and chemical mixtures, as amended

Act No. 258/2000 Coll., on Protection of Public Health, as amended

Act No. 254/2001 Coll., on Waters, as amended

Act No. 201/2012 Coll., on Air Protection, as amended

Act No. 541/2020 Coll., on Waste, as amended

Regulation No. 93/2016 Coll., on the Waste Catalogue, as amended

Government Directive No. 361/2007 Coll., which determines occupational health protection conditions, as amended

Act No. 224/2015 Coll., on prevention of serious accidents caused by selected dangerous chemicals or chemical mixtures, as amended

### 15.2. Chemical safety assessment

The chemical safety assessment was conducted as a part of the substance registration process. The substance complies with the classification criteria for hazardous substances pursuant to Directive (EC) No. 1272/2008 CLP. Exposure assessment as well as the subsequent risk characterization step have been conducted.

## SECTION 16. OTHER INFORMATION

### Changes made during the revision

Changes in this version of the safety data sheet are indicated by a black and red vertical line to the left of the text.

24.4.2023 In section 9, the term “ignition point” was replaced by the term “flash point”.

### Abbreviated words and abbreviations used in the text

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS	Registration number assigned by the “Chemical Abstracts Service“ of the ”American Chemical Society“
CLP	Directive (EC) No. 1272/2008 on Classification, Labelling and Packaging of Chemical Substances and Mixtures, implemented into the European legislature by GHS (United Nations’ Globally Harmonized System)
CMR	Carcinogenic, mutagenic or toxic for reproduction
ČSN EN (ISO)	European standard incorporated into the system of the Czech technical standards
CSR	Chemical Safety Report
DMEL	Exposure level that corresponds to a low and possibly theoretical risk, which should be considered an acceptable risk (for threshold-less effects, i.e. no exposure level without an effect exists)
DNEL	Exposure level derived from toxicological data, during which no negative impacts on the health of people occur
DW	Data waiving
EC <sub>50</sub>	Effect concentration that results in immobilization of 50% of individuals
ErC <sub>50</sub>	Effect concentration that results in a 50% reduction of the seaweed growth speed
ECHA	European Chemicals Agency
EL <sub>50</sub>	Effective loading speed that is necessary for a 50% immobilization
ES	Official number of the chemical substance in the European Union: EINECS from the European Inventory of Existing Commercial Substances, or ELINCS from the European List of Notified Chemical Substances, or NLP from the “No Longer Polymer“ list of substances
HSDB	Hazardous Substances Data Bank
IATA	International Air Transport Association
IBC	International regulation for the construction and equipment of boats that transport hazardous chemicals in bulk (“Intermediate Bulk Container”)
IC <sub>50</sub>	Inhibition concentration that results in inhibition of 50% of individuals
ICAO	International Civil Aviation Organization
ICE	“Intervention in Chemical Transport Emergencies” program
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organisation
ISO	International Organization for Standardization
LC <sub>50</sub> /LD <sub>50</sub>	Lethal concentration/level that results in death of 50% of individuals
LL <sub>50</sub>	Introduction speed of the tested substance that results in a 50% mortality rate
LOEC/LOEL	Lowest Observed Effect Concentration/Level
log K <sub>oc</sub>	Logarithm for the partition coefficient of carbon and water in soil
log K <sub>ow</sub>	Logarithm for the n-octanol/water partition coefficient
MARPOL	International convention on preventing pollution from boats

nf	Not feasible
NOAEC/NOAEL	Highest “no observed adverse effect concentration/level”
NOEC/NOEL	Highest “no observed effect concentration/level”
NPK-P	Highest acceptable chemical substance concentration in the air (substance concentration that employees can be exposed for a maximum of 15 minutes; nevertheless, this concentration must never be exceeded)
OECD	Organization for Economic Co-operation and Development
PPA	Personal protective aids
UN	United Nations
(Q)SAR	Theoretical mathematic model, using of which can be used for determining the given substance characteristics based on the chemical substance structure and activity (“Quantitative Structure-Activity Relationship”)
PBT, vPvB	Persistent, bioaccumulative and toxic, highly persistent and highly bioaccumulative
PEL	Acceptable exposure limit of a given chemical substance in the air (exposure value that employees can be exposed to during the entire shift time (8 hours) even all their lives without endangering their health)
PNEC	Estimated concentration, during which hazardous effects in the given environmental component do not occur
REACH	Directive (EC) No. 1907/2006 on the Registration, Evaluation and Authorisation of Chemicals
RID	Regulation Concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
SU	Scientifically Unjustified
TRINS	Transportation information and accident system
UACRON	Chemical database (The University of Akron).
UN number	Four-digit substance or item identification number adopted from the UN ample regulations
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials

### Data sources used for preparing safety data sheets

Appendixes I, IV, VI and VII to Directive (EC) No. 1272/2008 CLP, as amended

First aid principles upon exposure to chemical substances (doc. MUDr. Daniela Pelclová and col.)

Registration documentation of the substances pursuant to Directive (EC) No. 1907/2006 REACH

Decision of the European Agency for Chemical Substances ECHA No. SUB-D-2114173897-30-01/F on the registration pursuant to Directive (EC) No. 1907/2006 REACH

### The information evaluation method used to classify the mixture

The flammability of the mixture was assessed based on the measured flash point and boiling point range. Effects on health and the aquatic environment were assessed using the procedures set out in Annex I to the CLP Regulation for classification mixtures based on known information on the classification of the ingredients and the known content of the ingredients in the mixture.

### Training instructions

People who handle the product have to be acquainted with the related handling risks and with the requirements related to the protection of health and of the environment (see the corresponding stipulations of

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the Labor Code).

#### Access to information

Pursuant to Article 35 of Directive (EC) No. 1907/2006 REACH, all employers have to allow access to the information stated on the safety data sheets to all employees who use the given product or who are exposed to its effects while working, as well as to representatives of these employees.

#### Limit worksite exposure values for the EU countries (see Point 8.1.1)

motor diesel data (CAS number 68334-30-5)

Name	Country	8-hour limit [mg.m <sup>-3</sup> ]	short-term limit [mg.m <sup>-3</sup> ]
Motor diesel	European Union (Regulation 2000/39/ES)	<b>no limit values for the given substances have been defined</b>	
	Hungary		
	Germany		
	Poland		

8-hour limit: measured and calculated value in relation to an eight-hour reference period as a time-weighted average  
 short-term limit: exposure limit value, which should not be exceeded and which corresponds to 15 minutes

#### Emergency phone numbers for the EU countries (see Section 1.4)

Národní centra (PCCS)	TELEFON	JAZYK	Instituce / Webová stránka/ Email
Belgie 	+070245245	German	<a href="http://www.poissoncentre.be">http://www.poissoncentre.be</a> Centre Antipoisons, c/o Hôpital Militaire Reine Astrid Rue Bruyn 1, 1120 Bruxelles
Bulharsko 	+359/29154411	Bulgarian	<a href="https://pirogov.eu/bg">https://pirogov.eu/bg</a>
Chorvatsko 	+385/12348342	Croatian	<a href="https://www.imi.hr/en/jedinica/poison-control-centre">https://www.imi.hr/en/jedinica/poison-control-centre</a> Croatian Poison Control Centre / Centar za kontrolu otrovanja
ČR 	+420/224-919293; 915402	Czech	<a href="http://www.tis-cz.cz">http://www.tis-cz.cz</a> Toxikologické informační středisko (TIS) Na bojišti 1, 120 00 Praha 2 e-mail: <a href="mailto:tis@vfn.cz">tis@vfn.cz</a>
Dánsko 	+45/82121212	Danish	<a href="https://www.bispebjerghospital.dk/giftlinien">https://www.bispebjerghospital.dk/giftlinien</a> Giftlinjen at Bispebjerg Hospital
Estonsko 	+372/7943794 / +112	Estonian	<a href="https://www.16662.ee">https://www.16662.ee</a> Poisoning Information Centre Häirekeskuse number: 112 Hotline: 16662
Finsko 	+0800147111	Finnish	Finnish Poison Information Center
Francie – Orfila (INRS) 	+33/0145425959	French	"Centres Antipoison et de Toxicovigilance (CapTv) Hôpital Fernand Widal" 200 rue du Faubourg Saint Denis 75010 PARIS <a href="mailto:viviane.damboise@lrp.aphp.fr">viviane.damboise@lrp.aphp.fr</a>
Francie - Angers 	+33/241482121	French	<a href="http://www.centres-antipoison.net/angers/index.html">http://www.centres-antipoison.net/angers/index.html</a>
Francie - Bordeaux 	+33/556964080	French	<a href="http://www.centres-antipoison.net/bordeaux/index.html">http://www.centres-antipoison.net/bordeaux/index.html</a>
Francie - Lille 	+33/0800595959	French	<a href="http://www.centres-antipoison.net/lille/index.html">http://www.centres-antipoison.net/lille/index.html</a>
Francie - Lyon 	+33/472116911	French	<a href="http://www.centres-antipoison.net/lyon/index.html">http://www.centres-antipoison.net/lyon/index.html</a>
Francie - 	+33/491752525	French	<a href="http://www.centres-antipoison.net/marseille/index.html">http://www.centres-antipoison.net/marseille/index.html</a>

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Národní centra (PCCS)	TELEFON	JAZYK	Instituce / Webová stránka/ Email
Marseille			
Francie - Nancy	 +33/383225050	French	<a href="http://www.centres-antipoison.net/nancy/index.html">http://www.centres-antipoison.net/nancy/index.html</a>
Francie - Paris	 +33/140054848	French	<a href="http://www.centres-antipoison.net/paris/index.html">http://www.centres-antipoison.net/paris/index.html</a>
Francie - Strasbourg	 +33/388373737	French	<a href="http://www.centres-antipoison.net/strasbourg/index.html">http://www.centres-antipoison.net/strasbourg/index.html</a>
Francie - Toulouse	 +33/561777447	French	<a href="http://www.centres-antipoison.net/toulouse/index.html">http://www.centres-antipoison.net/toulouse/index.html</a>
Irsko	 +353/18092166	English	<a href="http://www.poisons.ie/Public">http://www.poisons.ie/Public</a>
Itálie - Bergamo	 +39/800883300	Italian	Istituto Superiore di sanità – Preparati Pericolosi
Itálie - Firenze	 +39/0557947819	Italian	
Itálie - Milano	 +39/02-66101029	Italian	
Itálie - Pavia	 +39/0382-24444	Italian	
Itálie - Napoli	 +39/081-5453333	Italian	
Itálie - Foggia	 +39/800183459	Italian	
Itálie - Verona	 +39/800011858	Italian	
Itálie - Roma	 +39/06-49978000, +39/06-3054343	Italian	
Kypr	 +357/22405611	Greek	
Litva	 +370/52362052	Lithuanian	<a href="http://www.apsinuodijau.lt">http://www.apsinuodijau.lt</a> Apsinuodijimų informacijos biuras“
Lotyšsko	 +371/67042473 / +112	Latvian	Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs, Hipokrāta 2 Rīga, Latvija, LV-1038
Lucembursko	 +49/80025500	German	<a href="http://www.poissoncentre.be">http://www.poissoncentre.be</a>
	 +352/80025500	French	<a href="http://www.centreatipoisons.be">http://www.centreatipoisons.be</a>
Maďarsko	 +36/680201199, +36/0614766464	Hungarian	<a href="http://www.okbi.hu/page.php?trid=1&amp;dz=103">http://www.okbi.hu/page.php?trid=1&amp;dz=103</a> Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) E-mail: ettsz@nnk.gov.hu
Malta	 +356/23952000	English	<a href="https://mccaa.org.mt/">https://mccaa.org.mt/</a>
Německo	 +49/112, +49/116117	German	
Německo - Berlin	 +49/3019240	German	<a href="https://giftnotruf.charite.de">https://giftnotruf.charite.de</a>
Německo - Bonn	 +49/22819240	German	<a href="http://www.gizbonn.de/index.php?id=272">http://www.gizbonn.de/index.php?id=272</a>
Německo - Erfurt	 +49/361730730	German	<a href="https://www.ggiz-erfurt.de/home.html">https://www.ggiz-erfurt.de/home.html</a>
Německo - Freiburg	 +49/076119240	German	<a href="https://www.uniklinik-freiburg.de/giftberatung.html">https://www.uniklinik-freiburg.de/giftberatung.html</a>
Německo - Göttingen	 +49/55119240	German	<a href="https://www.giz-nord.de/cms/index.php">https://www.giz-nord.de/cms/index.php</a>
Německo – Homburg/Saar	 +49/684119240	German	<a href="http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/kinder_und_jugendmedizin/informations_und_behandlungszentrum_fuer_vergiftungen_des_saarlandes">http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/kinder_und_jugendmedizin/informations_und_behandlungszentrum_fuer_vergiftungen_des_saarlandes</a>
Německo – Mainz	 +49/613119240	German	<a href="http://www.giftinfo.uni-mainz.de/index.php?id=24807">http://www.giftinfo.uni-mainz.de/index.php?id=24807</a>
Německo - München	 +49/8919240	German	<a href="http://www.toxinfo.med.tum.de">http://www.toxinfo.med.tum.de</a>
Nizozemsko	 +31/302748888	Dutch	<a href="http://www.productnotification.nl/">http://www.productnotification.nl/</a>
Polsko – Kraków	 +48/124119999	Polish	<a href="http://www.oit.cm.uj.edu.pl">http://www.oit.cm.uj.edu.pl</a>
Polsko – Gdansk	 +48/586820404	Polish	<a href="http://www.pctox.pl/news.php">http://www.pctox.pl/news.php</a>
Polsko – Poznań	 +48/618476946	Polish	<a href="http://www.raszeja.poznan.pl/oddzialy/oddzial_eksykologiczny">http://www.raszeja.poznan.pl/oddzialy/oddzial_eksykologiczny</a>
Polsko – Warszawa	 +48/607218174	Polish	<a href="mailto:okzit@burdpi.pol.pl">okzit@burdpi.pol.pl</a>
Portugalsko	 +351/808250143 / +112	Portuguese	<a href="http://www.inem.pt">http://www.inem.pt</a>
Rakousko	 +43/14064343	German	Austrian Poison Information Centre (Vergiftungsinformationszentrale-VIZ)

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Národní centra (PCCS)	TELEFON	JAZYK	Instituce / Webová stránka/ Email
Řecko 	+30/2107793777	Greek	Poison Information CentreChildren's Hospital "P&A Kyriakou" E-mail: poison_ic@aglaiakyriakou.gr
Rumunsko 	+40/213183606, 215992300, 265212111	Romanian	spital@urgentaflorasca.ro secretariat@spitjudms.ro infotox@insp.gov.ro
Slovensko 	+421/254652307	Slovak	http://www.ntic.sk
Slovinsko 	+386/15221293 / +112	Slovenian	www.kclj.si
Španělsko 	+34/915620420	Spanish	Servicio de Información Toxicológica (SIT) Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) C/José Echegaray nº4, 28232 Las Rozas de Madrid Madrid sit@mju.es / intcf@justicia.es
Švédsko 	<b>SECTION 17.</b> ☎+46/112 <b>SECTION 18.</b> (112 – begär Giftinformation) k dispozici 24/7 zdarma	Swedish	Giftinformationscentralen / Swedish Poisons Information Centre https://giftinformation.se/servicemeny/in-english/

**Declaration:** The safety data sheet has been prepared in compliance with Directive (EC) No. 1907/2006 REACH. It contains information that is necessary for ensuring occupational health and safety and protection of the environment. This information has been stated in good spirits, it corresponds to the current level of knowledge and experience and complies with our valid legal regulations. The stated information does not replace the corresponding qualitative specification and it cannot be considered a guarantee of suitability and usability of this product for a particular application. It is the responsibility of the product user to assess accuracy of the information for particular applications, during which the product characteristics can be influenced by various factors. The consumer is responsible for complying with the valid regional legal regulations.

APPENDIX TO THE SAFETY DATA SHEET  
EXPOSURE SCENARIO PURSUANT TO ARTICLE 31 OF DIRECTIVE OF THE EUROPEAN  
PARLIAMENT AND COUNCIL (EC) NO. 1907/2006 (REACH)

It is a mixture. Based on Chapter 2.23.2 of the instructions for creating safety sheets, the consolidated information from the exposure scenario, which arise from the consolidation of various exposure scenarios used in the mixture, has been incorporated in main Sections 1-16 of the safety sheet.



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