

H350: May cause cancer.

## SAFETY DATA SHEET

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

**DISTILLATES (PETROLEUM), VACUUM** 

## Issue: 2020-03-05

Revision: 2024-03-06

Version: 1.1/EN

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1. Product identifier Name of the Substance: Distillates (petroleum), vacuum EC No.: 274-685-1 CAS No.: 70592-78-8 Index No.: 649-038-00-5 REACH Registration No.: 01-2119485967-14-0004 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses: feedstock for 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: post@orlenlietuva.lt 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) Acute Tox. 4, H332 Asp. Tox. 1, H304 Muta. 2, H341 Repr. 2, H361 (Specific effect: Unborn child) Carc. 1B, H350 STOT RE 2, H373 (Organs affected: Blood, thymus, liver) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=1) 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: GHS08 GHS07 GHS09 Hazard Statements: H304: May be fatal if swallowed and enters airways. H332: Harmful if inhaled. H341: Suspected of causing genetic defects. H361: Suspected of damaging fertility or the unborn child.

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H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

## Precautionary statements:

P201: Obtain special instructions before use.

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.

## Additional labelling requirements

EUH066: Repeated exposure may cause skin dryness or cracking.

## 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.

Vapours irritant to respiratory tract. Large amount of product vapours inhaled may cause chemical intoxication. Prolonged and repeated exposure causes dry and flacking skin. Toxic to aquatic organisms. May cause long-term adverse effects to aquatic environment. Risk of soil and ground water contamination.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances

Substance Name	Concentration, %	Labelling according to CLP Regulation
Distillates (petroleum), vacuum	Up to 100	Acute Tox. 4, H332
EC No.: 274-685-1		Asp. Tox. 1, H304
CAS No.: 70592-78-8		Muta. 2, H341
Index No.: 649-038-00-5		Repr. 2, H361 (Specific effect: Unborn
REACH Registration No.:		child)
01-2119485967-14-0004		Carc. 1B, H350
		STOT RE 2, H373 (Organs affected:
		Blood, thymus, liver)
		Aquatic Acute 1, H400
		Aquatic Chronic 1, H410 (M=1)

Contains substances for which workplace exposure limit value is established. Occupational exposure limits, if available, are listed in SECTION 8. For full text of H-statements, see SECTION 16.

## 3.2. Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

## 4.1. Description of first aid measures

Spillages make surface slippery.

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

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

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Hydrogen sulfide (H<sub>2</sub>S) may accumulate in the headspace of storage tanks and reach potentially hazardous concentrations.

#### Inhalation

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

If casualty is unconscious and:

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

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

Obtain medical assistance if breathing remains difficult.

If suspected that hydrogen sulfide (H<sub>2</sub>S) may be inhaled:

- rescuers shall wear breathing apparatus and use belts and safety ropes as well as follow the relevant rescue procedures.

- remove the affected person to fresh air as soon as possible.

- immediately give artificial respiration, if stopped breathing.

- Provision of oxygen may help.

- Address for further medical assistance.

#### 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.

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.

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## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

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

## Unsuitable extinguishing media:

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

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

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

#### **Combustion Products**

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

If sulfur compounds are present in appreciable amounts, combustion products may include also  $H_2S$  and  $SO_x$  (sulfur oxides) or sulfuric acid.

#### Specific Hazards

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

## 5.3. Advice for firefighters

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

## 6.1.1. For non-emergency personnel

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

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

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

#### 6.1.2. For emergency responders

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

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.

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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**

Stop or contain leak at the source if safe to do so. 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. Large quantities spilled to open waters shall be contained, if possible, using floating barriers or other mechanical means.

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

#### Spillages onto Land

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

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

#### Spillages on Water or at Sea

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

#### Additional information

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

Concentrations of hydrogen sulfide ( $H_2S$ ) in tanks may reach hazardous values in case of prolonged storage. This is especially important in operations which involve direct exposure to vapours from the tank.

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.

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## 7.1. Precautions for safe handling

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

A specific assessment of inhalation risks from the presence of  $H_2S$  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.

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. In case of any suspected concentrations of hydrogen sulfide ( $H_2S$ ), check for  $H_2S$  level in ambient air.

Store separately from oxidising 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. Store in a well-ventilated place. 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 feedstock for fuel.



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#### 8.1. Control parameters

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

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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  $-300 \text{ mg/m}^3$ .

#### **Biological limit values (BLV)**

No biological limit value has been established for this substance.

#### Recommended monitoring procedures

Standard monitoring procedures must be followed.

Follow the monitoring measures applied in the country.

#### **Derived No Effect Level DNEL**

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

Route of exposure	Type of exposure	Hazard assessment conclusion	Most sensitive endpoint
Workers	1	1	1
Systemic effe	ects		
Inhalation	Long term exposure	DNEL 0.18 mg/m <sup>3</sup>	Developmental toxicity / teratogenicity
Inhalation	Acute/short term exposure	DNEL 4716.8mg/m <sup>3</sup>	Acute toxicity (inhalation)
Dermal	Long term exposure	DNEL 0.065 mg/kg bw/day	Developmental toxicity / teratogenicity
Dermal	Acute/short term exposure	No hazard identified	
Local effects			
Inhalation	Long term exposure	No hazard identified	
Inhalation	Acute/short term exposure	No hazard identified	
Dermal	Long term exposure	High hazard (no threshold derived)	
Dermal	Acute/short term exposure	Low hazard (no threshold derived)	
Eyes	Local effects	No hazard identified	
General Pop	ulation		
Systemic effe	ects		
Inhalation	Long term exposure	Hazard unknown but no further hazard information necessary as no exposure expected	
Inhalation	Acute/short term exposure	Hazard unknown but no further hazard information necessary as no exposure expected	
Dermal	Long term exposure	Hazard unknown but no further hazard information necessary as no exposure expected	



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Dermal	Acute/short term	Hazard unknown but no further	
Dennai			
	exposure	hazard information necessary	
		as no exposure expected	
Oral	Long term exposure	DNEL 0.015 mg/kg bw/day	Repeated dose toxicity (Dermal)
Oral	Acute/short term	Hazard unknown but no further	
	exposure	hazard information necessary	
		as no exposure expected	
Local effects	6	· · ·	
Inhalation	Long term exposure	Hazard unknown but no further	
		hazard information necessary	
		as no exposure expected	
Inhalation	Acute/short term	Hazard unknown but no further	
	exposure	hazard information necessary	
		as no exposure expected	
Dermal	Long term exposure	Hazard unknown but no further	
		hazard information necessary	
		as no exposure expected	
Dermal	Acute/short term	Hazard unknown but no further	
	exposure	hazard information necessary	
		as no exposure expected	
Eyes	Local effects	Hazard unknown but no further	
-		hazard information necessary	
		as no exposure expected	

## **Predicted No Effect Concentrations PNEC**

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

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

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

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

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

#### a) Eye/face protection

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

#### b) Skin protection

#### i) Hand protection

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

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

## c) Respiratory protection

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



protection equipment should be selected and used in accordance with the manufacturer's instructions and requirements established by the law.

#### d) Thermal hazards

If applicable, use heat-resistant personal protective equipment.

#### **Hygiene measures**

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

#### 8.2.3. Environmental exposure controls

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

Avoid release to the environment.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

a) Physical state	Liquid
b) Colour	Brown
c) Odour	Typical odour of hydrocarbons
d) Melting point/freezing point	< 30 °C
e) Boiling point or initial boiling point and boiling range	350–380 °C
f) Flammability	Not classified as flamable liquid
g) Lower and upper explosion limit	Non explosive
h) Flash point	242 °C
i) Auto-ignition temperature	220–550 °C
j) Decomposition temperature	Not applicable
k) pH	Not applicable
I) Kinematic viscosity	9.754 mm²/s (at 100 °C)
m) Solubility	Not applicable to UVCB substances
<ul> <li>n) Partition coefficient n-octanol/water (log value)</li> </ul>	Not applicable to UVCB substances
o) Vapour pressure	0.02–0.791 kPa (esant 120 °C)
<ul> <li>p) Density and/or relative density</li> </ul>	0.82–0.845 g/cm³ (at 15 °C)
q) Relative vapour density	No data
r) Particle characteristics	Not applicable for liquids
9.2. Other information	

## 9.2.1. Information with regard to physical hazard classes

Based on the available data, does not meet the CLP Regulation criteria as 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

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High ambient temperature.

Avoid electrostatic discharges and other ignition sources.

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

## 10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

## 10.6. Hazardous decomposition products

Thermal decomposition products vary depending on conditions.

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

## SECTION 11: TOXICOLOGICAL INFORMATION

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

## a) acute toxicity

Not classified for acute oral toxicity based on an oral  $LD_{50}$  4320 mg/kg bw (females), 5270 mg/kg bw (males) (test method equivalent or 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 4100 to 4500 mg/l for male and female rats (test method equivalent or similar to OECD 403).

Not classified for acute dermal toxicity based on a dermal  $LD_{50}$  of > 2000 mg/kg body weight (test method equivalent or similar to OECD 434).

b) skin corrosion/irritation

Does not meet the classification criteria based on available data. Test method equivalent or similar to OECD 404.

c) serious eye damage/irritation

Does not meet the classification criteria based on available data. Test method equivalent or similar to OECD 405.

d) respiratory or skin sensitisation

Does not meet the classification criteria based on available data. Test method equivalent or similar to OECD 406.

## e) germ cell mutagenicity

Classified as mutagenic, Cat. 2, H341: Suspected of causing genetic defects (weight of evidence approach).

## f) carcinogenicity

Classified as carcinogenic, Cat. 1B, H350: May cause 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

Classified as toxic to reproduction, Cat. 2, H361: Suspected of damaging fertility or the unborn child. NOAEL for maternal and developmental toxicity = 0.05 mg/kg bw/day (weight of evidence approach).

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: blood, thymus, liver (weight of evidence approach).

## j) aspiration hazard

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Classified as presenting an aspiration hazard, Cat. 1, H304: May be fatal if swallowed and enters airways. Based on a kinematic viscosity.

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

Inhalation of vapor slightly irritates eyes and respiratory tract. Liquid product in contact with eyes may cause transient flushing or redness. Liquid product in contact with skin may cause slight irritation and dehydration. Hot product in contact with eyes or on skin causes thermal burns.

Ingestion of small amounts is unlikely to cause adverse effects, but higher amounts may cause nausea and diarrhea. If swallowed, there is a risk of aspiration.

Prolonged or repeated product contact with skin may cause dermatitis and other skin conditions including skin cancer. Product vapors may contain polycyclic arenas, so prolonged inhalation of vapors and gases is hazardous and may cause diseases, including lung cancer.

NOTE: Handling this product under usual conditions causes no toxic hazard.

## 11.2 Information on other hazards

## Endocrine disrupting properties

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

## SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

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

Classified as hazardous to the aquatic environment — Acute, Cat. 1, H400 Very toxic to aquatic life.

Classified as hazardous to the aquatic environment — Chronic, Cat. 1, H410: Very toxic to aquatic life with long lasting effects.

Short term toxicity to fish

The 96 h  $LL_{50}$  for freshwater fish (*Oncorhynchus mykiss*) is 79 mg/l (based on data of similar substances).

Long-term toxicity to fish

The estimated freshwater fish NOEL value is 0.1 mg/l based on mortality.

Short-term toxicity to aquatic invertebrates

EL<sub>50</sub> (daphnia, 48 h) 0.22 mg/l based on mobility (based on data of similar substances).

Long-term toxicity to aquatic invertebrates

The estimated freshwater invertebrate NOEL value is 0.27 mg/l based on immobility and numbers of live young produced per adult by day 21.

Toxicity to aquatic algae and cyanobacteria

EL<sub>50</sub> (72 h, *Pseudokirchneriella subcapitata*) value 0.32 mg/l. NOELR 0.05 mg/l based on growth rate.

Toxicity to microorganisms

The estimated 72 h  $LL_{50}$  value for *Tetrahymena pyriformis* is >1000 mg/l and the estimated NOEL is 14.91 mg/l.

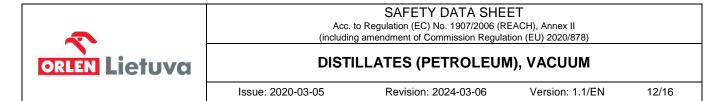
## 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

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

## 12.4. Mobility in soil



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

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

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

#### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

No data available.

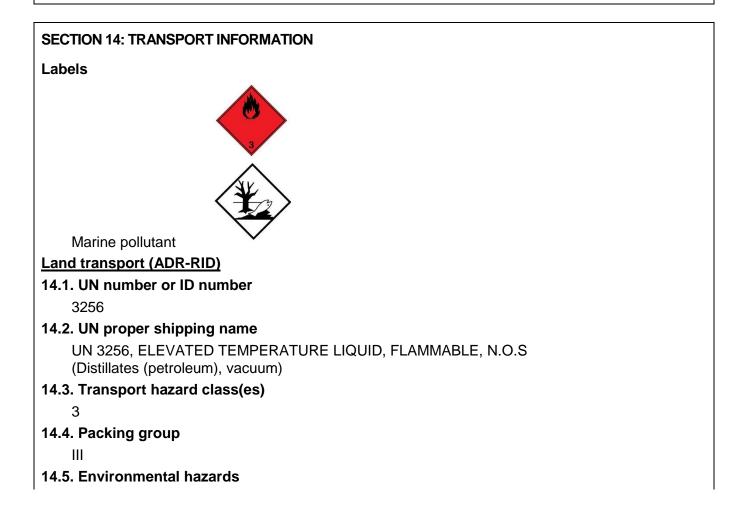
#### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

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

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

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





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Environmentally hazard	lous.			
14.6. Special precautions				
Hazard identification Ne Classification code Labels Special provisions Limited and excepted of Tunnel restriction code	o. 30 F2 3 274, 560 juantities - 3 (D/E) rovisions, see In chapt	er 3.3 of the ADR / RID and storage advice.	regulation.	
14.7. Maritime transport in	•	•		
Not applicable	<b>3</b>			
Inland waterway transport	(UN RTDG/ADN(R))			
14.1. UN number or ID nur				
3256				
14.2. UN proper shipping	name			
UN 3256, ELEVATED <sup>-</sup> (Distillates (petroleum),		ID, FLAMMABLE, N.O.S	S.	
14.3. Transport hazard cla	ss(es)			
3				
14.4. Packing group				
III				
14.5. Environmental hazar	ds			
Environmentally hazard	lous.			
14.6. Special precautions	for user			
Classification code Labels Special provisions Equipment required	F2 3 274, 560 PP, EX, A			
14.7. Maritime transport in		IO instruments		
Not applicable	5	-		
Marine transport (UN RTD	G/IMDG)			
14.1. UN number or ID nur				
3256				
14.2. UN proper shipping	name			
UN 3256, ELEVATED <sup>-</sup> (Distillates (petroleum),		ID, FLAMMABLE, N.O.S	S.	
14.3. Transport hazard cla	ss(es)			
3				
14.4. Packing group				
III				
14.5. Environmental hazar				
Environmentally hazard				
14.6. Special precautions				
EmS number	F-E, S-D			

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Limited and excepted of	quantities None				
IBC instructions	IBC01				
3256 is category A for	stacking and separatio	n			
14.7. Maritime transport in	n bulk according to IN	IO instruments			
IMO tank instructions	-				
Air transport (UN RTDG/IC	CAO/IATA)				
14.1. UN number or ID nu					
3256					
14.2. UN proper shipping	name				
UN 3256, ELEVATED (Distillates (petroleum)		IID, FLAMMABLE, N.O.	S.		
14.3. Transport hazard cla	ass(es)				
3					
14.4. Packing group					
14.5. Environmental haza	rds				
Environmentally hazar	dous.				
14.6. Special precautions					
Limited and excepted of Special provisions					
14.7. Maritime transport in	n bulk according to IN	IO instruments			
	2				

Not applicable

## SECTION 15: REGULATORY INFORMATION

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

## Relevant EU/international legislations:

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

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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 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: 2024-03-06

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
- CLP Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- DNEL Derived No-Effect Level
- EC EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of Notified Chemical Substances)
- EL<sub>50</sub> Effective loading rate resulting in 50% effect
- EmS Emergency Response Procedures for Ships Carrying Dangerous Goods
- EN European standard of European Committee for Standardization
- ErL<sub>50</sub> Loading Rate of Test Substance (in dilution water) which causes 50% reduction in algal growth rate
- EU European Union
- IATA International Air Transport Association
- IBC Intermediate bulk container
- ICAO International Civil Aviation Organization
- IMDG International Maritime Dangerous Goods Code
- IMO International Maritime Organization

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- JT United Nations
- LC<sub>50</sub> Lethal concentration for 50 % percent of test organisms
- LD<sub>50</sub> Lethal dose for 50 % of test organisms (median lethal dose)
- LL<sub>50</sub> Lethal load for 50 % of the test organisms
- LR Republic of Lithuania
- LTEL Long-term exposure limit value
- NOAEC No observed adverse effect concentration
- NOAEL No observed adverse effect level
- NOEL Non observed effect level
- OECD Organization for Economic Cooperation and Development
- PBT Persistent, bioaccumulative and toxic
- PNEC Predicted no-effect concentration
- RCR Risk characterization ratio
- RID The Regulation concerning the International Carriage of Dangerous Goods by Rail
- RTDG Recommendations on the Transport of Dangerous Goods
- REACH Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
- STEL Short-term exposure limit value
- STOT Specific target organ toxicity
- UFI Unique Formula Identifier
- UVCB Substance of unknown or variable composition, complex reaction products or biological materials
- vPvB very Persistent and very Bioaccumulative

#### Full text of Hazard Statements:

- H304: May be fatal if swallowed and enters airways.
- H332: Harmful if inhaled.
- H341: Suspected of causing genetic defects.
- H350: May cause cancer.
- H361: Suspected of damaging fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

## Key literature references and sources for data

Registration documentation

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

## **Training advice**

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

Do not use the product for any purposes other than indicated in the manufacturer's information. During such use the user may be exposed to unforeseen hazards.

Should you have any questions or doubts regarding SDS, its contents or any other concerns related to safety of the product, please contact us by e mail: <a href="mailto:post@orlenlietuva.lt">post@orlenlietuva.lt</a>

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