

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 3/31/2026 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance (UVCB)
Trade name	: ORLEsol ^{110/170 U}
Chemical name	: naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446 °F).]
EC Index-No.	: 649-330-00-2
EC-No.	: 265-185-4
CAS-No.	: 64742-82-1
REACH registration No.	: 01-2119490979-12-0005
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial use
Industrial/Professional use spec	: Chemical processes general Intermediate Used in closed systems

1.2.2. Uses advised against

Restrictions on use	: Professional uses, Consumer uses, Use in Cleaning Agents, Uses in Coatings
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1.3. Details of the supplier of the safety data sheet

Manufacturer

ORLEN Południe S.A.
Fabryczna 22
32-540 Trzebinia
Poland
T +48 24 201 00 00, F +48 24 367 74 14
E-mail address of competent person responsible for the SDS : reach.poludnie@orlen.pl

1.4. Emergency telephone number

Emergency number	: +48 24 201 00 00 Emergency number 112
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Carcinogenicity, Category 1B	H350
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 1	H372
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H350 - May cause cancer.
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTRE or doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P391 - Collect spillage.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	ORLEsol ^{110/170 U} (64742-82-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	ORLEsol ^{110/170 U} (64742-82-1)

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Comments : The full UVCB ingredient list is not known
Substance type : UVCB

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CAS-No. : 64742-82-1
 EC-No. : 265-185-4
 EC Index-No. : 649-330-00-2

Name	Product identifier	%
ORLEsol ^{110/170 U} (Note P)	CAS-No.: 64742-82-1 EC-No.: 265-185-4 EC Index-No.: 649-330-00-2 REACH-no: 01-2119490979-12-0005	≈ 100
Xylene (Component)	CAS-No.: 1330-20-7 EC-No.: 215-535-7	< 15
Ethylbenzene (Component)	CAS-No.: 100-41-4 EC-No.: 202-849-4	< 3
Toluene (Component)	CAS-No.: 108-88-3 EC-No.: 203-625-9	< 1
1,2,4-trimethylbenzene (Component)	CAS-No.: 95-63-6 EC-No.: 202-436-9 EC Index-No.: 601-043-00-3	< 1
Mesitylene (Component)	CAS-No.: 108-67-8 EC-No.: 203-604-4	< 1
1,2,3-Trimethylbenzene (Component)	CAS-No.: 526-73-8	< 1
Cumene (Component)	CAS-No.: 98-82-8 EC-No.: 202-704-5	0.1 – 0.7
Benzene (Component)	CAS-No.: 71-43-2 EC-No.: 200-753-7	≤ 0.01

Full text of H- and EUH-statements: see section 16

Note P: Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Do not induce vomiting. Do not leave affected person unattended. Never give anything by mouth to an unconscious person. Medical personnel should be made aware of substance(s) involved and take measures for self protection. Get medical advice/attention if you feel unwell. Use protective clothing. Wear suitable respiratory protection.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor. Keep warm and in a quiet place.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. The hot liquid may cause severe skin burns.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after ingestion	: Risk of lung oedema. Fatal if swallowed.
Chronic symptoms	: May cause cancer. Contact with hot material - prevent serious burns.

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

Treat symptomatically. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label. Keep victim under observation. Move the affected person away from the contaminated area and into the fresh air.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Can form explosive mixtures with air.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. fume.

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area. Stop leak if safe to do so. Keep container tightly closed and away from heat, sparks and flame. Wear suitable respiratory protection. Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion.
Firefighting instructions	: Evacuate area. Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Remove ignition sources. Do not breathe vapours. Notify authorities if product enters sewers or public waters. Avoid contact with skin and eyes. Use special care to avoid static electric charges.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. In case of contamination of soil or water bodies notify the competent authorities. Do not allow run-off from fire-fighting to enter drains or water courses. Do not breathe vapours.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Toxic to aquatic life with long lasting effects. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage. Contain large spillage with sand or earth.
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Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. Section 15: Regulatory information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: In use, may form flammable vapour-air mixture. Product to be handled in a closed system. No flames, no sparks. Eliminate all sources of ignition.
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Incompatible materials	: Strong oxidizing agents.
Heat and ignition sources	: No open flames, no sparks, and no smoking. Keep away from any flames or sparking source.
Storage area	: Store in a well-ventilated place. Store away from heat. Protect from sunlight.
Special rules on packaging	: Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

No additional information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

ORLEsol ^{110/170 U} (64742-82-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	White spirit Type 1
IOEL TWA	116 mg/m ³
	20 ppm
IOEL STEL	290 mg/m ³
	50 ppm
Remark	Skin. (Year of adoption 2007)
Regulatory reference	SCOEL Recommendations
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Benzene

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ORLEsol ^{110/170 U} (64742-82-1)	
BOEL TWA	0.66 mg/m ³
	0.2 ppm
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2022/431 (amending Directive 2004/37/EC)
EU - Biological Limit Value (BLV)	
Local name	Benzene
BLV	28 µg/l Parameter: benzene - Medium: blood - Sampling time: immediately end of shift 46 µg/g creatinine Parameter: phenylmercapturic - Medium: urine - Sampling time: end of exposure/shift
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
Benzene (71-43-2)	
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	Benzene
BOEL TWA	0.66 mg/m ³
	0.2 ppm
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)
Regulatory reference	DIRECTIVE (EU) 2022/431 (amending Directive 2004/37/EC)
EU - Biological Limit Value (BLV)	
Local name	Benzene
BLV	28 µg/l Parameter: benzene - Medium: blood - Sampling time: immediately end of shift 46 µg/g creatinine Parameter: phenylmercapturic - Medium: urine - Sampling time: end of exposure/shift
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs
Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
	50 ppm
IOEL STEL	384 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Cumene (98-82-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Phenylpropane (Cumene)
IOEL TWA	50 mg/m ³
	10 ppm
IOEL STEL	250 mg/m ³
	50 ppm

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Cumene (98-82-8)	
Remark	Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
1,2,4-trimethylbenzene (95-63-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1,2,4-Trimethylbenzene
IOEL TWA	100 mg/m ³
	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Mesitylene (108-67-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Mesitylene (Trimethylbenzenes)
IOEL TWA	100 mg/m ³
	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m ³
	100 ppm
IOEL STEL	884 mg/m ³
	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m ³
	50 ppm
IOEL STEL	442 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
1,2,3-Trimethylbenzene (526-73-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1,2,3-Trimethylbenzene
IOEL TWA	100 mg/m ³

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1,2,3-Trimethylbenzene (526-73-8)

	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC**ORLEsol^{110/170 U} (64742-82-1)****DNEL/DMEL (Workers)**

Acute - systemic effects, inhalation	1286.4 mg/m ³
Acute - local effects, inhalation	1066.67 mg/m ³
Long-term - local effects, inhalation	837.5 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation	1152 mg/m ³
Acute - local effects, inhalation	640 mg/m ³
Long-term - local effects, inhalation	178.57 mg/m ³

PNEC (additional information)

Additional information	W tym przypadku nie dotyczy
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8.1.5. Control banding

No additional information available

8.2. Exposure controls**8.2.1. Appropriate engineering controls****Appropriate engineering controls:**

Ensure good ventilation of the work station. Do not eat, drink or smoke during use. Do not breathe dust. Keep in a cool place. Use personal protective equipment as required. Always wash hands after handling the product. Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment**Personal protective equipment:**

Protective goggles. EN 374-3.

Personal protective equipment symbol(s):**8.2.2.1. Eye and face protection****Eye protection:**

Safety glasses

8.2.2.2. Skin protection**Skin and body protection:**

Wear suitable protective clothing. Wear impervious rubber safety shoes. Antistatic clothing. Wear protective gloves

Hand protection:

Nitrile rubber gloves. Protective gloves against chemicals (EN 374). Wash your hands

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	min. 0,34		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear foot protection. Wear protective clothing. Wear protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

Thermal hazard protection:

Use insulated gloves, impervious apron, long sleeves and other protective clothing when handling this material hot.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless. light yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: < -20 °C
Freezing point	: Not available
Boiling point	: > -88 – ≤ 260 °C
Flammability	: Very flammable liquid Highly flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: < 21 °C
Auto-ignition temperature	: > 250 (280 – 470) °C
Decomposition temperature	: No data
pH	: Not available
Viscosity, kinematic	: ≥ 0.5 mm ² /s
Solubility	: Not soluble in water alone.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: < 5 (≥ 4 – ≤ 240) kPa
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.62 – 0.88 Type: 'relative density' Temp.: 15 °C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity**10.1. Reactivity**

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

fume. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ORLEsol^{110/170 U} (64742-82-1)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5610 mg/m ³ 4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.

ORLESOL 110/170 (64742-82-1)

Viscosity, kinematic	≥ 0.5 mm ² /s
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

ORLEsol^{110/170 U} (64742-82-1)

LC50 - Fish [1]	8.2 mg/l Pimephales promelas
EC50 - Crustacea [1]	4.5 mg/l daphnia
EC50 72h - Algae [1]	3.1 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	2.6 mg/l Pimephales promelas
NOEC chronic crustacea	2.6 mg/l Daphnia magna (Water flea)
EL50, aquatic invertebrates, daphnia, acute	4,5 mg/l (48 Hours)

12.2. Persistence and degradability

ORLEsol^{110/170 U} (64742-82-1)

Persistence and degradability	Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).
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12.3. Bioaccumulative potential

ORLEsol^{110/170 U} (64742-82-1)

Bioaccumulative potential	Not applicable.
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12.4. Mobility in soil

ORLEsol^{110/170 U} (64742-82-1)

Mobility in soil	Not applicable.
Additional information	Not applicable.

12.5. Results of PBT and vPvB assessment

ORLEsol^{110/170 U} (64742-82-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	ORLEsol ^{110/170 U} (64742-82-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	ORLEsol ^{110/170 U} (64742-82-1)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Regional waste regulation : Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797). Act of 13 June 2013 on the management of packaging and packaging waste (J. o L. 2013, item 888 as amended; consolidated text J. o L. 2020, item 1114). Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container. Handle empty containers with care because residual vapours are flammable.

HP Code : HP3 - "Flammable:"
 – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
 HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence
 HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
 HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / RID

ADR	IMDG	RID
14.1. UN number or ID number		
UN 1268	UN 1268	UN 1268

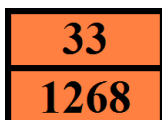
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ADR	IMDG	RID
14.2. UN proper shipping name		
PETROLEUM DISTILLATES, N.O.S. / PETROLEUM PRODUCTS, N.O.S.	PETROLEUM PRODUCTS, N.O.S.	PETROLEUM PRODUCTS, N.O.S.
Transport document description		
UN 1268 PETROLEUM DISTILLATES, N.O.S. / PETROLEUM PRODUCTS, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
3	3	3
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: Yes
No supplementary information available		

14.6. Special precautions for user**Overland transport**

Classification code (ADR)	: F1
Special provisions (ADR)	: 640D, 664
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:



Tunnel restriction code (ADR)	: D/E
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Transport by sea

Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7

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Tank special provisions (IMDG) : TP1, TP8, TP28
 Stowage category (IMDG) : B
 Properties and observations (IMDG) : Immiscible with water.

Rail transport

Classification code (RID) : F1
 Special provisions (RID) : 640D
 Limited quantities (RID) : 1L
 Excepted quantities (RID) : E2
 Packing instructions (RID) : P001, IBC02, R001
 Mixed packing provisions (RID) : MP19
 Portable tank and bulk container instructions (RID) : T7
 Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28
 Tank codes for RID tanks (RID) : LGBF
 Transport category (RID) : 2
 Colis express (express parcels) (RID) : CE7
 Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and all its amendments and modifications. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 and all its amendments and modifications.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
5.	Benzene	Benzene
28.	ORLEsol ^{110/170 U} ; Benzene; Cumene	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.
3(a)	ORLEsol ^{110/170 U} ; Benzene; Toluene; Cumene; 1,2,4-trimethylbenzene; Mesitylene; Ethylbenzene; Xylene; 1,2,3-Trimethylbenzene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	ORLEsol ^{110/170 U} ; Benzene; Toluene; Cumene; 1,2,4-trimethylbenzene; Mesitylene; Ethylbenzene; Xylene; 1,2,3-Trimethylbenzene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

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EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(c)	ORLEsol ^{110/170 U} ; Benzene ; Toluene ; N-hexane ; Cumene ; 1,2,4-trimethylbenzene ; Mesitylene ; Ethylbenzene ; Xylene ; 1,2,3-Trimethylbenzene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
48.	Toluene	Toluene

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH candidate List

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Benzene (71-43-2)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

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Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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Abbreviations and acronyms:

BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : As from 24 August 2023 adequate training is required before industrial or professional use. Personal monitoring.

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU