ORLEN OIL GEAR DCT

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 20/11/2023 Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	ORLEN OIL GEAR DCT
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	:	Professional use,Consumer use
Use of the substance/mixture	:	gear oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ORLEN OIL Sp. z o.o.
ul. Elbląska 135
80-718 Gdańsk
T +48 12 66 555 00 / +48 12 66 555 01
centrala@orlenoil.pl
E-mail address of competent person responsible for the SDS : msds@orlenoil.pl

1.4. Emergency telephone number

Emergency number	:	Emergency contact + 48 242010367, +48 242869509, +4824286955 Emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Signal word (CLP)	:	-
Hazard statements (CLP)	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P273 - Avoid release to the environment. P501 - Dispose of contents/container to properly labelled waste cont national law.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification ac Regulation (EC) [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil— unspecified; (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13	82.7	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic; Baseoil— unspecified (Note L)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3	1.253 – 1.959	Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil— unspecified (Note L)	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X	0.768 – 1.28	Asp. Tox. 1, H304
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	EC-No.: 620-540-6	0.128 – 0.384	Acute Tox. 4 (Oral), mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H4 Aquatic Chronic 1,
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	EC-No.: 939-485-7 REACH-no: 01-2119974116-35	0.013 – 0.038	Acute Tox. 4 (Oral), mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H4 Aquatic Chronic 1,
(Z)-N-9-octadecenyl-1,3-diaminopropane	CAS-No.: 7173-62-8 EC-No.: 230-528-9	≤ 0.013	Acute Tox. 4 (Oral), mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H4 Aquatic Chronic 1,
Dimantine	CAS-No.: 124-28-7 EC-No.: 204-694-8 REACH-no: 01-2119486676-20	≤ 0.013	Acute Tox. 4 (Oral), mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H4 Aquatic Chronic 1,

Note L

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, or water spray or regular foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. S
breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. I
refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : -20 – 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; (64742-54-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	5.4 mg/m³ 8 hours
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1.2 mg/m³ 24 hours
PNEC (Oral)	
PNEC oral (secondary poisoning)	9.33 mg/kg food mammalian

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2112 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.214 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.745 mg/m³
Long-term - systemic effects, dermal	0.214 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.214 µg/l
PNEC aqua (marine water)	0.0214 µg/l
PNEC aqua (intermittent, freshwater)	0.87 µg/l

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	
PNEC (Oral)	
PNEC oral (secondary poisoning)	2 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1500 µg/l

(Z)-N-9-octadecenyl-1,3-diaminopropane (7173-62-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5.6 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	39.5 µg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.96 µg/m³
Long-term - systemic effects, dermal	2 µg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	10 µg/l
PNEC aqua (marine water)	1 µg/l
PNEC aqua (intermittent, freshwater)	1.48 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.72 mg/kg dwt
PNEC sediment (marine water)	172 µg/kg dw
PNEC (Soil)	
PNEC soil	10 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	89 µg/kg food
PNEC (STP)	
PNEC sewage treatment plant	251 µg/l

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.9 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.74 mg/m³

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
PNEC (Sediment)	
PNEC sediment (freshwater)	3.19 mg/kg dwt
PNEC sediment (marine water)	0.32 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.59 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.3 mg/l

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.

8.2.2. Personal protection equipment

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

Hand protection:
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

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

Boiling point	:	Not available
Flammability	:	Non flammable.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 200 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	32.5 mm²/s 40°C
Solubility	:	insoluble in water. Soluble in hydrocarbons.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	0.843 g/cm³ 15°C
Relative density	:	Not available
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

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
LD50 oral rat	300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guid Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Gui tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EP (Acute Oral Toxicity), Guideline: other:

Skin corrosion/irritation : Not classified

Dimantine (124-28-7)	
pH	10.1 Source: ECHA

Serious eye damage/irritation : Not classified

Dimantine (124-28-7)	
pH	10.1 Source: ECHA

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Dimantine (124-28-7)	
NOAEL (chronic, oral, animal/male, 2 years)	42.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OE (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on
NOAEL (chronic, oral, animal/female, 2 years)	52.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

(Z)-N-9-octadecenyl-1,3-diaminopropane (7173-62-8)	
NOAEL (oral, rat, 90 days)	0.4 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (S Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
NOAEL (oral, rat, 90 days)	≥ 50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (S Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: othe results: not determinable due to absence of adverse toxic effects

Aspiration hazard : Not classified

ORLEN OIL GEAR DCT	
Viscosity, kinematic	32.5 mm²/s 40°C

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil— unspecified; (72623-87-1	
Viscosity, kinematic	≈ 16 mm²/s 40°C

(Z)-N-9-octadecenyl-1,3-diaminopropane (7173-62-8)	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful 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) : Harmful to aquatic life with long lasting effects.

Not rapidly degradable

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	
LC50 - Fish [1]	0.1 mg/l Test organisms (species): Danio rerio (previous name: Brac
EC50 - Crustacea [1]	0.043 mg/l Test organisms (species): Daphnia magna

(Z)-N-9-octadecenyl-1,3-diaminopropane (7173-62-8)	
LC50 - Fish [1]	0.148 mg/l Test organisms (species): Danio rerio (previous name: B

Dimantine (124-28-7)	
LC50 - Fish [1]	0.079 mg/l Source: NITE
LOEC (chronic)	0.108 mg/l Test organisms (species): Daphnia magna Duration: '21

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
LC50 - Fish [1]	2.22 mg/l Test organisms (species): Danio rerio (previous name: Bra
LC50 - Fish [2]	2.14 mg/l Test organisms (species): Danio rerio (previous name: Bra

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Dimantine (124-28-7)	
Partition coefficient n-octanol/water (Log Pow)	8.39 Source: ChemIDplus

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

Inland waterway transport
Not applicable

Rail transport
Not applicable

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

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

Abbreviations and acronyms:	
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 Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC		
Aquatic Chronic 3	H412	Calculation method

The classification complies with : ATP 12