ORLEvance TECH 400

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/1/2025 Revision date: 1/12/2026 Supersedes version of: 9/1/2025 Version: 2.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	ORLEvance TECH 400
Name	:	NA – the product is a mixture
Cas No.	:	NA – the product is a mixture
WE No.	:	NA – the product is a mixture
REACH Registration No.	:	NA – the product is a mixture
UFI code	:	CT20-10FK-Y00N-WXCH

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

Identified uses: production of low-freezing refrigerant mixtures, production of polyesters, polyethers, polyester fibers, dyes, foams, adhesives, sealants, paints, lubricants, semi-finished product, antifreeze agent, heat transfer agent.

Uses advised against: all not listed as identified uses (remark: the product contains ethylene glycol).

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4	H302
Specific target organ toxicity – Repeated exposure, Category 2	H373

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07 GHS08

Signal word (CLP) : Warning
Contains :

Hazard statements (CLP)	:	H302 - Harmful if swallowed. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	:	P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P330 - Rinse mouth. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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 at a concentration equal to or greater than 0,1 %.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylene glycol	CAS-No.: 107-21-1 REACH-No.: 01-2119456816-28-0289	25– 75	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
Glycerol	CAS-No.: 56-81-5 REACH-no: Exempted Annex V	10 – 60	Not classified
Propylene glycol	CAS-No.: 57-55-6 REACH-no: 01-2119456809-23-0273	0 – 40	Not classified

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	Do not leave affected person unattended. Remove all contaminated clothing and footwear.
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.
First-aid measures after skin contact	:	Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Immediately rinse with water for a prolonged period while holding the eyelids wide open. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth out with water. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Get immediate medical advice/attention. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures for first aider : If this chemical contacts the eyes, promptly wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if any discomfort continues. First aid workers will be equipped with suitable personal protective equipment. If this chemical has been swallowed, get medical attention immediately.

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

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. Swallowing this material will result in serious health hazard, potentially leading to collapse and death.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed. Fatal if swallowed.

Chronic symptoms : Affects the nervous system.

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

If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label. Treat symptomatically. 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 : Carbon dioxide (CO2). Foam. a foam fire extinguisher.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Contact with combustible material may cause fire. In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Acrolein.

5.3. Advice for firefighters

Precautionary measures fire : Stop leak if safe to do so. Keep container tightly closed and away from heat, sparks and flame. Keep container closed when not in use. Keep cool. Protect from sunlight. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Fight fire from safe distance and protected location. Prevent fire fighting water from entering the environment. In case of fire: stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. Wear recommended personal protective equipment. Do not attempt to take action without suitable protective equipment.

Other information : On exposure to high temperature, may decompose, releasing toxic gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Do not allow run-off from fire-fighting to enter drains or water courses. Do not touch or walk on the spilled product. No open flames, no sparks, and no smoking. Do not breathe vapours.

For emergency responders

Emergency procedures : Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Do not touch spilled material. Do not breathe vapours. Wear personal protective clothing (see chapter 8). Remove all sources of ignition.

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Contain the spilled material by bunding (product is hazardous for the environment).

6.3. Methods and material for containment and cleaning up

For containment : Do not touch or walk on the spilled product. Stop leak without risks if possible.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Section 15: Regulatory information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : No flames, no sparks. Eliminate all sources of ignition.

Precautions for safe handling : Do not eat, drink or smoke when using this product. No open flames. No smoking. Avoid contact with skin, eyes and clothing.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. Wear personal protective equipment. Observe protective provisions.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Take precautionary measures against static discharge.

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Strong oxidizing agents.

Storage temperature : ≥ 10 – ≤ 25 °C

Storage area : Store in a well-ventilated place. Protect from sunlight. Store away from heat.

Germany

Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids

Joint storage table :

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for : LGK 1, LGK 2A, LGK 5.1A, LGK 6.2, LGK 7

Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2

Joint storage permitted for : LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

7.3. Specific end use(s)

See Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m³
	20 ppm
IOEL STEL	104 mg/m³
	40 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Czech Republic - Occupational Exposure Limits	
Local name	Ethylenglykol (Ethan-1,2-diol)
PEL (OEL TWA)	50 mg/m³
	19.38 ppm
NPK-P (OEL C)	100 mg/m³
	38.77 ppm
Remark	D - při expozici se významně uplatňuje pronikání faktoru kůží.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethandiol
AGW (OEL TWA)	26 mg/m³
	10 ppm
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900
Poland - Occupational Exposure Limits	
Local name	Glikol etylenowy
NDS (OEL TWA)	15 mg/m³
NDSCh (OEL STEL)	50 mg/m³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Slovakia - Occupational Exposure Limits	
Local name	Etylénglykol (etán-1,2-diol)
NPHV (OEL TWA)	52 mg/m³
	20 ppm
NPHV (OEL STEL)	104 mg/m³

Ethylene glycol (107-21-1)	
	40 ppm
Remark	K – znamená, že faktor môže byť ľahko absorbovaný kožou
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
DNELworker (inhalation, chronic toxicity, skutki local effects): 35 mg/m³ NOAEC: 35 mg/m3 DNELworker (skin, chronic toxicity, general effects): 106 mg/kg per day NOAEL: 4 440 mg/kg per day DNELpopulation (inhalation, chronic toxicity, local effects) 7 mg/m³ NOAEC: 67 mg/m3 DNELpopuletion (skin, chroic toxicity, general effects) 53 mg/kg per day NOAEL: 4 440 mg/kg per day PNECfresh water: 10mg/L PNECsalt water: 1 mg/L PNECstp: 199,5 mg/L PNECsludge(fresh water): 37 mg/kg of sediment PNECsludge(salt water): 3,7 mg/kg of sediment PNECsoil: 1,53 mg/kg of soil	

Propylene glycol (57-55-6)	
Poland - Occupational Exposure Limits	
Local name	Propano-1,2-diol
NDS (OEL TWA)	100 mg/m³ pary i frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych.
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
DNELworker (inhalation, chronic toxicity, general effects): 168 mg/m³ NOAEC: 502 mg/m3 DNELworker (inhalation, chronic toxicity, local effects): 10 mg/ m3 DNELpopulation (inhalation, chronic toxicity, general effects): 50 mg/m³ NOAEC: 250 mg/m3 DNELpopulation (inhalation, chronic toxicity, local effects): 10 mg/m3 PNECfresh water: 260 mg/L PNECsalt water: 26 mg/L PNECstp: 20 000 mg/L PNECsediment(fresh water): 572 mg/kg of sediment PNECsediment(salt water): 57,2 mg/kg of sediment PNECsoil: 50 mg/kg of soil	

Glycerol (56-81-5)	
Czech Republic - Occupational Exposure Limits	
Local name	Glycerol, mlha
PEL (OEL TWA)	10 mg/m³
	2.6 ppm
NPK-P (OEL C)	15 mg/m³
	3.9 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 20/2025 Sb.)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Glycerin

Glycerol (56-81-5)	
AGW (OEL TWA)	200 mg/m³ (E)
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Poland - Occupational Exposure Limits	
Local name	Glicerol
NDS (OEL TWA)	10 mg/m³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych.
OEL chemical category	E (Inhalable fraction)
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.
Slovakia - Occupational Exposure Limits	
Local name	Glycerín
NPHV (OEL TWA)	10 mg/m³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)
DNELworker (inhalation, chronic toxicity, local effects): 220 mg/m³ NOAEC: 622 mg/m3 DNEL population (inhalation, chronic toxicity, local effects): 132 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Do not eat, drink or smoke during use. Keep in a cool place. Use personal protective equipment as required. Always wash hands after handling the product. Ensure that there is a suitable ventilation system.

Personal protection equipment

Personal protective equipment:
Wear protective clothing.

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Safety glasses

Skin protection

Skin and body protection:
Chemical resistant apron. Wear protective gloves. Long sleeved protective clothing

Hand protection:
Protective gloves against chemicals (EN 374)

Respiratory protection

Respiratory protection:
Wear suitable respiratory equipment in case of insufficient ventilation

Thermal hazards

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

Environmental exposure controls

Environmental exposure controls:
Do not exceed the occupational exposure limits (OEL). Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Straw to dark green
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Ethylene glycol = -13 °C; propylene glycol = -60 °C; glycerol = 18 °C (101 325 Pa)
Freezing point	:	Not available
Boiling point	:	Ethylene glycol = 197,4 oC; propylene glycol = 184 °C; glycerol = 290 oC (101 325 Pa)
Flammability	:	The mixture is flammable in temperature >100 oC
Lower explosion limit	:	Ethylene glycol: 3,2-15,3% (v/v).; Propylene glycol: 2,5-12,5% (v/v).; glycerol: 2,6-11,3% (v/v)
Upper explosion limit	:	As above
Flash point	:	> 100 °C
Auto-ignition temperature	:	≈ 370 °C
Decomposition temperature	:	Not available
pH	:	5-8
Viscosity, kinematic	:	40-80 mm^2/s 25°C
Solubility	:	In water
Partition coefficient n-octanol/water (Log Kow)	:	Ethylene glycol = -1,36 (25°C); propylene glycol = -1,07 (20°C); glycerol = -1,75 (25°C)
Vapour pressure	:	Ethylene glycol = 0,123 hPa (25°C); propylene glycol = 20 Pa (25°C); glycerol = 26 Pa (100°C)
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20°C	:	≥ 1 – ≤ 1.26
Particle characteristics	:	Not applicable

9.2. Other information

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 of use.

10.3. Possibility of hazardous reactions

The mixture contains ethylene glycol - risk of ignition in contact with: chromium trioxide, potassium permanganate, sodium peroxide (room temperature); ammonium dichromate, silver chlorate, uranyl nitrate (100 °C).

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. PHOSPHORUS PENTASULPHIDE. DIMETHYL TEREPHTHALATE.

10.6. Hazardous decomposition products

Acrolein. 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) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ETHYLENE GLYCOL (107-21-1)	
LD50 oral rat	≈ 7712 mg/kg
LD50 dermal rat mouse	> 3500 mg/kg
LC50 Inhalation - Rat	> 2.5 mg/l

PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	22000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 Inhalation - rabbit	> 317 042 mg/m^3 air Animal: rat, Guideline: other:

GLYCEROL (56-81-5)	
LD50 oral rat	11500 mg/kg bodyweight Animal: rat, Animal sex: female
LD50 dermal	56750 ml/kg LD50 dermal guinea pig
LC50 Inhalation - Rat	5.85 mg/l air Animal: rat

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Ethylene glycol:
Acute Toxicity
- LC50 (96 h): fish; Pimephales promelas > 72 860 mg/L,
- EC50 (48 h): Dafnia magna 13 900 - 57 600 mg/l
- EC50 (96 h): algae; Pseudokirchnerella subcapitata 6 500 – 13 000 mg/l
Chronic Toxicity
-NOEC (7d): fish; Pimephales promelas 15 380 mg/l
-NOEC (7d): Ceriodaphnia sp 8 590 mg/l
Toxicity for microogranism
- TTC (EC5 (16 h): bacterias; Pseudomonas putida > 10 000 mg/l
EC20 (30 min): active sludge> 1995 mg/l

Propylene Glycol:
Acute Toxicity
- LC50 (96 h): fish; Oncorhynchus mykiss 40 613 mg/L,
- LC50 (48 h): Ceriodaphnia dubia 18 340 mg/l
- EC50 (96 h): algae; Pseudokirchnerella subcapitata 19 000 mg/l
Chronic Toxicity
-NOEC (7d): Ceriodaphnia sp. 13 020 mg/l
Toxicity for microogranism
- EC10 (18 h): bacterias; Pseudomonas putida > 20 000 mg/l

Glycerol:
Acute Toxicity
- LC50: fish 885 mg/L,
- LC50: fish 11 000 mg/L
- EC50 (48 h): Dafnia magna 1 955 mg/l
- EC50 : algae; Scenedesmus quadricande 2 900 mg/l
Chronic Toxicity
-NOEC: fish > 100 mg/l
-NOEC :Daphnia magna > 100 mg/l
Toxicity for microogranism
-EC50: bacterias: 10 000 mg/l
-NOEC: 10 000 mg/l

12.2. Persistence and degradability

Ethylene glycol (107-21-1)	
Persistence and degradability	rapidly degradable

Propylene glycol (57-55-6)	
Persistence and degradability	rapidly degradable

Glycerol (56-81-5)	
Persistence and degradability	rapidly degradable

12.3. Bioaccumulative potential

Propylene glycol (57-55-6)	
Partition coefficient n-octanol/water (Log Pow)	-1.07

Glycerol (56-81-5)	
Partition coefficient n-octanol/water (Log Kow)	2.66

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ORLEvance TECH 400
PBT: not relevant – no registration required
vPvB: not relevant – no registration required

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).

Waste treatment methods : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Reprocess or burn in an approved incinerator.

SECTION 14: Transport information

In accordance with ADR / IMDG / RID

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

14.6. Special precautions for user

Overland 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

EU-Regulations

REACH registration exemptions (full phrase explanation)

Component name	REACH Registration exemption information
Glycerol	Exempted from REACH registration in accordance with Annex V

REACH Annex XVII (Restriction List)

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

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

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 no 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)

National regulations

Germany

VOC ordinance (ChemVOCFarbV) :

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Poland

Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:
Modified. Composition/information on ingredients. Identification of the substance/mixture and of the company/undertaking.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Calculation method
STOT RE 2	H373	Calculation method

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU