

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

1.1. Product identifier

Product form	: Substance
Trade name	: GLYCERINE 4808
IUPAC name	: Glycerol
EC no.	: 200-289-5
CAS No.	: 56-81-5
REACH registration No.	: 1907/2006/EC Annex V.9
C&L notification reference no	: not applicable (non classified; Annex V)

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

Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec.	: Wide dispersive use

1.3. Details of the supplier of the safety data sheet

OLEON N.V.
Assenedestraat 2
BE 9940 Ertvelde
Belgium
T +32 9 341 10 11, F +32 9 341 10 00
sds@oleon.com, www.oleon.com

1.4. Emergency telephone number

Emergency number	: 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858) +32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree)
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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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

The product does not meet the PBT and vPvB classification criteria

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

Substance type : Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerol	CAS No.: 56-81-5 EC no.: 200-289-5 REACH-no: 1907/2006/EC Annex V.9	> 99	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Get medical advice/attention if you feel unwell.

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

Symptoms/effects : No supplementary information available.

Symptoms/effects after inhalation : On heating: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Coughing.

Symptoms/effects after eye contact : No known effects from this product.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Nausea. Headache. Vomiting. Diarrhea. Gastrointestinal complaints. Change in the haemogramme/blood composition. Disturbances of heart rate. Decreased renal function. Dehydration.

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

No supplementary information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : No direct explosion hazard.

5.3. Advice for firefighters

Other information : No supplementary information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mark the danger area. Exposure to fire/heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation. Wash contaminated clothing before reuse.

6.2. Environmental precautions

No supplementary information available.

6.3. Methods and material for containment and cleaning up

Other information : No supplementary information available.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling temperature : $\geq 10\text{ }^{\circ}\text{C}$ above melting point

7.2. Conditions for safe storage, including any incompatibilities

Maximum storage period : < 12 months Hygroscopic

Information on mixed storage : KEEP AWAY FROM: Oxidizing agents. acids. strong acids. bases. strong bases.

Storage area : Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.

Special rules on packaging : Store in a closed container. Suitably labelled. Keep dry, clean. Meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: steel. aluminium. iron. synthetic material. glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



Skin protection

Other skin protection

Materials for protective clothing:

Good resistance: Natural rubber. Neoprene. Polyvinylchloride (PVC). Viton. Less resistance: Styrene-butadiene rubber. Poor resistance: Polyurethane

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to light yellow.
Appearance (room temperature)	: Liquid.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: No supplementary information available
Freezing point	: ca. 18 °C
Softening point	: < 20 °C
Boiling point	: 290 °C (1013 hPa)
HMIS Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 199 °C (Closed cup, 1013 hPa, ISO 2719 : Flash point (Pensky-Martens))
Auto-ignition temperature	: 370 °C
Decomposition temperature	: 290 °C
pH	: 6 – 7.5 (10% in water)
Viscosity, kinematic	: 912.698 mm ² /s
Viscosity, dynamic	: ca. 1.15 Pa·s (20°C)
Solubility	: Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ethylacetate. Insoluble in oils/fats.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -1.75 (Experimental data (OECD 107 method), 25°C)
Vapour pressure	: < 0.01 hPa (20 °C)
Vapour pressure at 50 °C	: Not available
Density	: ca. 1260 kg/m ³ (25°C) ca. 1249 kg/m ³ (40°C) ca. 1209 kg/m ³ (100°C)
Relative density	: 1.26 (20 °C)
Relative vapour density at 20°C	: 3.2 (calculated value)
Relative density of saturated gas/air mixture	: 1
Particle characteristics	: Not applicable

9.2. Other information

Information with regard to physical hazard classes

Critical temperature : 452 °C

Other safety characteristics

Specific conductivity : 6400000 pS/m

VOC content : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)

Other properties : Soluble in water, Soluble in ethanol, Soluble in acetone, Soluble in ethylacetate, Insoluble in oils/fats, Slightly volatile, Gas/vapour heavier than air at 20°C, Hygroscopic, Neutral reaction, clear, Syrupy

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise: release of (highly) toxic gases/vapours. On combustion, forms: carbon oxides (CO and CO₂). May polymerize on exposure to temperature rise. Reacts with (some) acids: (increased) risk of fire/explosion. Reacts violently with (strong) oxidizers.

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No supplementary information available.

10.5. Incompatible materials

No supplementary information available.

10.6. Hazardous decomposition products

May liberate toxic gases.

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

GLYCERINE 4808 (56-81-5)

LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 10 day(s))
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LD50 dermal rabbit	> 10000 mg/kg
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Skin corrosion/irritation : Not classified
pH: 6 – 7.5 (10% in water)

Serious eye damage/irritation : Not classified
pH: 6 – 7.5 (10% in water)

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	: Not classified
Aspiration hazard	: Not classified

GLYCERINE 4808 (56-81-5)

Viscosity, kinematic	912.7 mm ² /s
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No supplementary information available.
Ecology - air	: TA Luft Class 5.2.5.
Ecology - water	: Mild water pollutant (surface water) Not harmful to fishes (LC50(96h) >1000 mg/l) Not harmful to aquatic organisms (EC50 > 1000 mg/l) Not harmful to algae Not harmful to bacteria Bioaccumulation: not applicable Sludge digestion is inhibited at >1000 mg/l 50% Readily biodegradable in water (OECD 301D: 82%; 20 days)
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

GLYCERINE 4808 (56-81-5)

LC50 - Fish [1]	54000 mg/l (96 h, SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS)
LC50 - Fish [2]	> 1000 mg/l (96 h, PISCES)
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h)
EC50 - Crustacea [2]	> 10000 mg/l (24 h, DAPHNIA MAGNA, LOCOMOTOR EFFECT)
EC50 - Other aquatic organisms [1]	> 1000 mg/l (BACTERIA, ACTIVATED SLUDGE)
TLM - Fish [1]	> 1000 ppm (96 h, PISCES)
TLM - Other aquatic organisms [1]	> 1000 ppm (96 h)
Threshold limit - Other aquatic organisms [1]	2900 mg/l (192 h, MICROCYSTIS AERUGINOSA, TOXICITY TEST)
Threshold limit - Other aquatic organisms [2]	> 10000 mg/l (16 h, PSEUDOMONAS PUTIDA, TOXICITY TEST)
Threshold limit - Algae [1]	> 10000 mg/l (168 h, SCENEDESMUS QUADRICAUDA, TOXICITY TEST)

12.2. Persistence and degradability

GLYCERINE 4808 (56-81-5)

Persistence and degradability	Rapidly degradable
Biochemical oxygen demand (BOD)	0.87 g O ₂ /g substance
Chemical oxygen demand (COD)	1.16 g O ₂ /g substance (ISO 15705)
ThOD	1.217 g O ₂ /g substance
BOD (% of ThOD)	71 % ThOD

12.3. Bioaccumulative potential

GLYCERINE 4808 (56-81-5)

Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental data (OECD 107 method), 25°C)
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12.4. Mobility in soil

GLYCERINE 4808 (56-81-5)

Surface tension	0.063 N/m (20°C)
Ecology - soil	Biodegradability in soil: no data available.

12.5. Results of PBT and vPvB assessment

GLYCERINE 4808 (56-81-5)

The product does not meet the PBT and vPvB classification criteria
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

GLYCERINE 4808 (56-81-5)

Other information	No supplementary information available
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite, or kieselguhr, powdered limestone, Scoop absorbed substance into closing containers, See "Material-handling" for suitable container materials, Wash down leftovers with plenty of water, Wash clothing and equipment after handling
Regional waste regulation	: No supplementary information available.
Ecological waste information	: LWCA (the Netherlands): KGA category 03. Recycle by distillation. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Do not discharge into surface water.
European List of Waste (LoW, EC 2000/532)	: No supplementary information available

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
-	-	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Not subject

Transport by sea

Transport regulations (IMDG) : Not subject

Air transport

Transport regulations (IATA) : Not subject

Inland waterway transport

No data available

Rail transport

Transport regulations (RID) : Not subject

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 Annex XVII (Restriction List)

Not listed on REACH Annex XVII

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)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

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

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

VOC Directive (2004/42)

VOC content : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)

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

Chemical inventories	: Compliant with AICIS, DSL, EU REACH, IECSC, INSQ, ISRAEL, Japan ENCS, Japan ISHL, KECL, NCI, NZIoC, PICCS, TCSI, TECI_DIW, TECI_FDA, TR EAEU, TSCA
KKDIK number (Turkey)	: KKDIK Annex V.9
K-REACH (Korea)	: exempted from (pre)registration according to K-REACH Appendix 1.4
UK-REACH (Great Britain)	: exempted from registration
Swiss ChemO (SR 813.11)	: This substance is not subject to the obligation to register pursuant to art.61 of the Chemicals Ordinance (ChemO)

France

French National Regulations : This product is not included in the French Order of 28 September 2023 for having endocrine disrupting properties. Listed substances are not intentionally added nor expected to be present in this product.

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 116).
VOC content : < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)

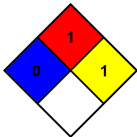
Netherlands

ABM category	: B(5) - low hazard for aquatic organisms
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment needed: the substance is not classified and exempt from Regulation EC No 1907/2006 (REACH) under Annex V, point 9.

SECTION 16: Other information

Training advice	: No supplementary information available.
Chemical inventories legend	: AICIS = Australian Inventory of Industrial Chemicals DSL = Canadian Domestic Substances List EU REACH = European Union REACH Regulation 1907/2006 IECSC = Inventory of Existing Chemicals Substances in China INSQ = Mexico National Inventory of Chemical Substances ISRAEL = Proposed Israel Hazardous Substances List, 2007 Japan ENCS = Japanese Existing Chemical Substances (ISHL) Japan ISHL = Japanese Existing and New Chemical Substances (CSCL) KECL = Korean Existing Chemical List NCI = Vietnam National Chemical Inventory NZIoC = New Zealand Inventory of Chemicals PICCS = Philippines Inventory of Chemicals and Chemical Substances TCSI = Taiwan Chemical Substance Inventory TECI_DIW = Thailand Existing Chemicals Inventory - Department of Industrial Works List TECI_FDA = Thailand Existing Chemicals Inventory - Food and Drug Administration List TR EAEU = Eurasian Economic Union Unified list of chemicals TSCA = USA Toxic Substances Control Act
SDS changed sections	: 15 - Regulatory information
SDS Reason for revision	: No supplementary information available
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
NFPA image	: 
Other information	: No supplementary information available.
The classification complies with	: ATP 12
SDS EU Oleon Annex II	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.