

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 OLEON is a registered trademark. Issue date: 28/01/2023 Revision date: 22/12/2022 Supersedes version of: 20/12/2022 Version: 2.20



SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Product form Substance SDB-Nr.: 2745 : GLYCERINE 4813 Trade name Artikelnummer: 0053481, **IUPAC** name : Glvcerol 11494400 : 200-289-5 EC no. Eingegangen am: 23.03.2023 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) Other means of identification : 1,2,3-propanetriol 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses : Industrial use, Professional use Main use category Industrial/Professional use spec. : Wide dispersive use 1.2.2. Uses advised against No additional information available 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** : 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858) Emergency number +32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree) Country **Official advisory body** Address **Emergency number** Comment World directory of poisons centres (Yellow Website http://www.who.int/gho/p he/chemical_safety/poiso Tox)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

WHO-OMS

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

Not classified

Adverse physicochemical, human health and environmental effects

No information on adverse effects on health and the environment.

ns_centres/en/



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2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

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

3.2. Mixtures

Not applicable

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.



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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. Reactivity in case of fire : Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (acrolein). Upon combustion CO and CO2 are formed. May polymerize on exposure to temperature rise. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids: (increased) risk of fire/explosion. 5.3. Advice for firefighters : Ne supelementary information enviriable

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.	
6.1.1. For non-emergency personnel No additional information available		
6.1.2. For emergency responders Protective equipment	: Use protective measures listed in Section 8.	
6.2. Environmental precautions		
No supplementary information available.		
6.3. Methods and material for containment and cleaning up		
For containment	: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.	
Methods for cleaning up	: Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite or kieselguhr. Absorb with an inert material and place in an appropriate waste disposal container. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.	
Other information	: No supplementary information available.	
6.4. Reference to other sections		

Personal protective measures are listed in Section 8. Handle waste materials in accordance with the provisions of Section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Handling temperature	: ≥ 10 °C above melting point



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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 and 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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. 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



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8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state : Liquid : Colourless to light yellow. Colour : Liquid. Appearance (room temperature) Odour : Odourless. Odour threshold : Not available : No supplementary information available Melting point Freezing point : ca. 18 °C Softening point : < 20 °C : 290 °C (1013 hPa) Boiling point **HMIS Flammability** : Not available **Explosive** limits : 2.7 - 19 vol % Lower explosion limit : Not available Upper explosion limit : Not available Flash point 199 °C (Closed cup, 1013 hPa, ISO 2719: Flash point (Pensky-Martens)) : 370 °C (T2) Auto-ignition temperature Decomposition temperature : 290 °C : 6 – 7.5 (10% in water) pН Viscosity, kinematic : ca. 912.698 mm²/s Viscosity, dynamic : ca. 1150 mPa.s (20°C) : Soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in ethylacetate. Insoluble in Solubility oils/fats. Partition coefficient n-octanol/water (Log Kow) : Not available Partition coefficient n-octanol/water (Log Pow) : -1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C) : < 0.01 hPa (20 °C) Vapour pressure Vapour pressure at 50 °C : Not available Density : ca. 1260 kg/m³ (25°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

9.2.1. Information with regard to physical hazard classes		
Explosion limits	: 2.7 – 19 vol %	
Critical temperature	: 452 °C	
9.2.2. Other safety characteristics		
Specific conductivity	: 6400000 pS/m	
VOC content	: < 1 % (1999/13/EC; 2004/42/EC; 2010/75/EU; SR 814.018)	



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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, Clear, Syrupy

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (acrolein). Upon combustion CO and CO2 are formed. May polymerize on exposure to temperature rise. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids: (increased) risk of fire/explosion. Reacts with nitric acid to form highly explosive nitroglycerine.

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Refer to Section 10 on Incompatible Materials.

10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases. Water, humidity.

10.6. Hazardous decomposition products

On heating/burning: release of toxic/combustible gases/vapours (acrolein).

SECTION 11: Toxicological information

11.1 Information on ha	zard classes as defined in Reg	ulation (FC) No 1272/2008
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Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
GLYCERINE 4813 (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
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



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GLYCERINE 4813 (56-81-5) Viscosity, kinematic ca. 912.698 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity		
Ecology - air : Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	No supplementary information available. TA Luft Class 5.2.5. 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 aquatic organisms (EC50 >1000 mg/l) 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) Not classified	
GLYCERINE 4813 (56-81-5)		
LC50 - Fish [1]	54000 mg/l (96 h, SALMO GAIRDNERI/ 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 4813 (56-81-5)	
Biochemical oxygen demand (BOD)	0.87 g O2/g substance
Chemical oxygen demand (COD)	1.16 g O2/g substance (ISO 15705)
ThOD	1.217 g O2/g substance
BOD (% of ThOD)	71 % ThOD



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12.3. Bioaccumulative potential		
GLYCERINE 4813 (56-81-5)		
Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)	
12.4. Mobility in soil		
GLYCERINE 4813 (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 4813 (56-81-5)		
Results of PBT assessment	This substance/mixture does not meet the {0} criteria of REACH regulation, annex XIII	
12.6. Endocrine disrupting properties		
No additional information available		
12.7. Other adverse effects		
Additional information :	No other effects known	

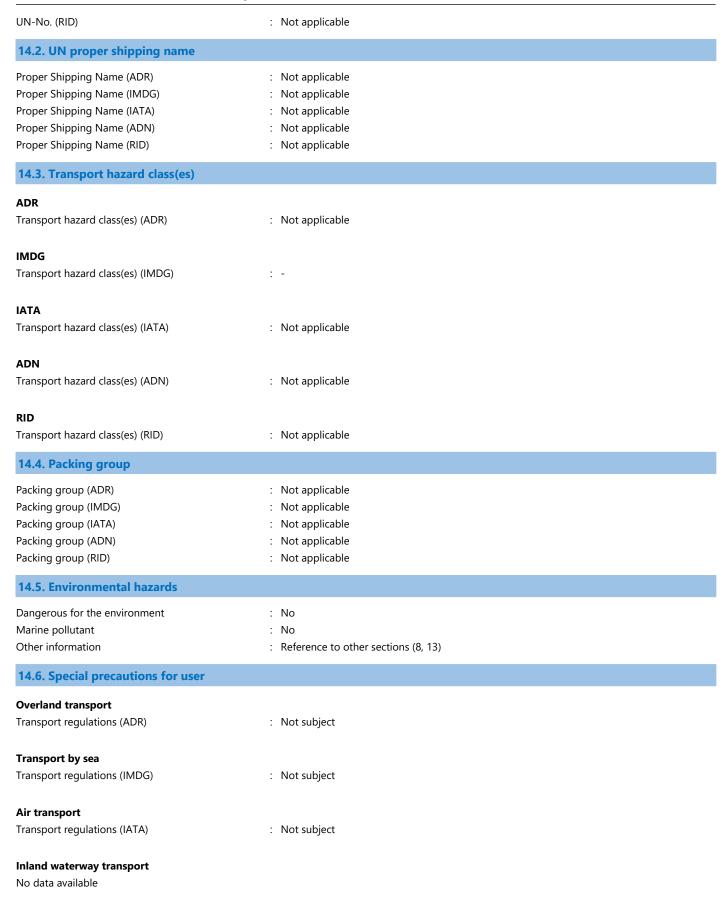
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Disposal	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite,or kieselguhr, powdered limestone,Scoop absorbed substance into closing containers,See "Material- handling" for suitable container materials,Wash down leftovers with plenty of water,Wash clothing and equipment after handling
Regional legislation (waste)	: No supplementary information available.
Product/Packaging disposal recommendations	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. Recycle by distillation. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Do not discharge into surface water.
Ecology - waste materials	: 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) code	: No supplementary information available

SECTION 14: Transport information			
In accordance with ADR / IMDG / IATA / ADN / RID			
14.1. UN number or ID num	ber		
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	: Not applicable		
UN-No. (ADN)	: Not applicable		



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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

15.1.1. 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 (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

VOC Directive (2004/42)

VOC content

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

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 explosives precursors)

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 market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Chemical inventories KKDIK number (Turkey) K-REACh (Korea) UK-REACh (Great Britain) Swiss ChemO (SR 813.11)	 Compliant with AIIC, DSL, EAEU, ECST, ENCS, EU REACh, IECSC, INSQ, ISHL, ISRAEL, KECL, NZIOC, PICCS, TECI, TSCA, VNCI KKDIK Annex V.9 exempted from (pre)registration according to K-REACh Appendix 1.4 exempted from registration This substance is not subject to the obligation to register pursuant to art.61 of the Chemicals Ordinance (ChemO)
Germany	
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 116).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
ABM category	: B(5) - low hazard for aquatic organisms



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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.
Chem. inventories legend	: AIIC = Australian Inventory of Industrial Chemicals
	DSL = Canadian Domestic Sustances List
	EAEU = Eurasian Economic Union Unified list of chemicals
	ECST = Existing Chemical Substances Inventory of Taiwan
	ENCS = Japanese Existing and New Chemicals Substances List
	EU REACh = European Union REACH Regulation 1907/2006
	IECSC = Inventory of Existing Chemicals Substances in China
	INSQ = Mexico National Inventory of Chemical Substance
	ISHL = Japanese Industrial Safety and Health Law Substances
	ISRAEL = Proposed Israel Hazardous Substances List, 2007
	KECL = Korean Existing Chemical List
	NZIoC = New Zealand Inventory of Chemicals
	PICCS = Philippine Inventory of Chemicals and Chemical Substances
	TECI = Thailand FDA Existing Chemicals Inventory
	TSCA (Active) = USA Toxic Substances Control Act
	VNCI = Vietnam National Chemicals Inventory
SDS changed sections	: 9 - Physical and chemical properties
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	: 0 - Material that in themselves are normally stable, even under fire conditions.
NFPA image	
Other information	: No supplementary information available.

: No supplementary information available.

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.