

## CAPRYLYL GLYCOL

### 1. IDENTIFICATION

**Product Name:** Caprylyl Glycol  
**INCI Name:** Caprylyl glycol  
**CAS#:** 1117-86-8  
**Product Form:** Solid  
**Product Use:** Cosmetic use  
**Distributor:** Avena Lab, Farmadria d.o.o.  
**Address:** Heroja Pinkija 44, Vršac  
**Telephone:** +381(0)695565028 or +381(0)695565029  
**Website:** www.avenalab.com  
**Email:** info@avenalab.com

### 2. HAZARD(S) IDENTIFICATION

**GHS Signal Word:**

**WARNING**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

**GHS Precautionary Statements:**

**Response**

**Disposal**

H319 Causes serious eye irritation.  
P264 Wash thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing  
P337 + P313 IF eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INCI Name</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>Chemical Formula</u>	<u>Composition%</u>
Caprylyl Glycol	1117-86-8	214-254-7	C <sub>8</sub> H <sub>18</sub> O <sub>2</sub>	≤100%

## 4. FIRST-AID MEASURES

**In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.**

<b>If Inhaled:</b>	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water.
<b>In case of eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media:</b>	Suitable extinguishing media: Water, Powder, Foam.
<b>Special Hazards arising from the substance or mixture:</b>	Carbon monoxide, carbon dioxide.
<b>Advice for Fire Fighters:</b>	Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment &amp; emergency procedures:</b>	Wear eye/face protection.
<b>Environmental precautions:</b>	Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
<b>Methods and material for containment and cleaning up:</b>	Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Ensure thorough ventilation of work areas and stores. Avoid contact with skin, eyes (tightly fitting safety goggles (splash goggles)) and clothes. Precautions against fire and explosion: Take precautionary measures against static discharge. Store in a cool dry place. Keep container closed when not in use.
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**Conditions for safe storage, including any incompatibilities:**

Requirements for storerooms and containers:  
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Store in a dry place. Keep container tightly closed. Do not empty containers with pressure-no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Hints on joint storage  
Further information on storage conditions: Keep away from heat.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal Protection:**

**Respiratory protection:** Respirator with organic vapor cartridge. Not applicable with adequate ventilation.

**Hand protection:** Protective gloves made of plastic or rubber.

**Eye protection:** Safety glasses with side shields.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Specific engineering controls:**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear and colorless liquid (25°C), White solid at low temperature
Purity(by G.C.):	≤98.5%
Melting Point:	28-31 °C
Boiling Point:	267 °C
Decomposition temperature:	No data available
Flash Point:	140.5 °C
Decomposition point:	No data available
Autoignition temperature:	No data available
Evaporation rate	
(N-butyl acetate =1):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Viscosity (25°C,mPa.s):	No data available

## 10. STABILITY AND REACTIVITY

**Reactivity:** No unusual reactivity.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions-Carbon oxides.

**Other decomposition products:** No data available.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Oral: LD50-rat (male/female) - >2000 mg/kg bw  
 Inhalation: LC50-rat (male/female)- >7.015 mg/L air-4h  
 Dermal: no data available

### Skin corrosion/irritation:

Occlusive administration of 1,2-octanediol to clipped, intact or clipped, abraded skin of three rabbits for 24 hours did not induce any skin reactions during the present study, i.e. during 72 hours after treatment start. According to EU classification rules [REGULATION (EC)1272/2008] the outcome of this study does not necessitate any labelling regarding skin irritation.

### Serious eye damage/eye irritation:

EU Method B.5-in vivo-rabbit  
 Corneal lesions, grade 1 or 2 in animal #1 and grade 1 in #2 were seen from 1 hour (Day 0) or 24 hours after test material instillation (Day 1) and had entirely disappeared by Day 16 in animal #1 and by Day 14 in animal #2. On a number of consecutive days, a lesion of the superficial epithelium of the cornea, ca. 3 mm in diameter, was recorded in each animal. Swelling of the iris (grade 1) was evident in animal #1 from 48 hours until 11 days after test material instillation and in animal #2 from 1 hour until 8 days after instillation and associated with circumcorneal hyperaemia in the iris in animal #1 for 5 days and animal #2 for 4 days.  
 The observation of an oval appearance of the pupil seen on a number of days in each animal was considered to be related to iris swelling. In addition to the findings specified above and under "Overall irritation/corrosion results", conjunctival redness grade 1 and chemosis grade 2 followed by grade 1 were also seen in both animals at 1 and 24 hours after instillation, and on some occasions, mucous secretion from the eye was recorded.  
 All ocular findings seen in the present study were fully reversible. Control eyes (untreated) were without ocular findings throughout the observation period.

### Respiratory or skin sensitization: Germ cell mutagenicity:

OECD 429-In vivo (LLNA)-mouse(female)- not sensitising  
 OECD 471, EU Method B.13/14 and EPA OPPTS 870.5100 - Bacterial Reverse Mutation Test-in vitro-S. typhimurium TA 1535, TA 1537, TA 98 and TA 100, E. coli WP2 uvr A-negative

### Carcinogenicity:

No data available

### Reproductive toxicity:

OECD 421-NOAEL-rat(male/female)->=1000 mg/kg bw/day (actual dose received)  
 OECD414-NOAEL-rat-> 300 - <1000 mg/kg bw/day (nominal)

### Teratogenicity:

### Specific target organ toxicity - single exposure (Globally Harmonized System):

No data available

### Specific target organ toxicity - repeated exposure (Globally Harmonized System):

OECD 408-NOAEL-rat(male/female)-maternal toxicity->150 -<300 mg/kg bw/day (actual dose received)

### Aspiration hazard:

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.

### Potential health effects:

No data available

### Signs and Symptoms of Exposure:

No data available

### Synergistic effects:

No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

**Short-term toxicity to fish:** OECD 203-LC50-Danio rerio-2.2-22 mg/L-96h

**Long-term toxicity to fish:**

**Short-term toxicity to aquatic invertebrates**

OECD 202, ISO 6341-EC50-Daphnia magna- >100 mg/L

**Long-term toxicity to aquatic invertebrates**

No data available

**Toxicity to aquatic algae and cyanobacteria:**

OECD 201, ISO 8692-EC50-Pseudokirchneriella subcapitata-35 mg/L

NOEC-Pseudokirchneriella subcapitata-15mg/L

EC10-Pseudokirchneriella subcapitata-17mg/L

**Toxicity to microorganisms:**

No data available

**Persistence and degradability:**

OECD 301D, EU Method C.4-E-75% degradation (O2 consumption)-28d

Readily biodegradable

**Bioaccumulative potential:**

The study does not need to be conducted because the substance has a low potential for bioaccumulation based on log Kow <=3

**Mobility in soil:**

No data available

**PBT and vPvB assessment:**

The substance is not PBT/vPvB because it

- Readily biodegradable

- A Log Kow < 4.5

**Other Adverse Effects:**

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment method

**Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. TRANSPORT INFORMATION

**UN number:**

ADR/RID: - IMDG: - IATA: -

**UN proper shipping name:**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es):**

ADR/RID: - IMDG: - IATA: -

**Packaging group:**

ADR/RID: - IMDG: - IATA: -

**Environmental hazards:**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**Special precautions for user:**

No data available

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EC) No 1272/2008.**

Listing	Caprylyl Glycol
EC Inventory	Listed.
United States Toxic Substances Control Act (TSCA) Inventory	Listed.
New Zealand Inventory of Chemicals (NZIoC)	Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed.
Australian Inventory of Chemical Substances (AICS)	Listed.
Canada Domestic Substances List (DSL)	Listed.
Canada Non-Domestic Substances List (NDSL)	Not Listed.
Vietnam National Chemical Inventory (NCI)	Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
Korea Existing Chemicals List (KECL)	Listed.

**Chemical Safety Assessment:** No data

## 16. OTHER INFORMATION

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. AvenaLab shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.