Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.04.2020 Version n° 2 Revision: 27.04.2020

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

1.1 Product identifier — **Octane-1,2-diol, Glycerides, C8-10 mono- and di-, Glycerol**

Trade Name : EasySafe GC 8

INCI Name : Caprylyl Glycol, Glyceryl Caprylate/Caprate, Glycerin

MINASOLVE Code: PFS0045

REACH Registration number : Octane-1,2-diol: 01-2119966905-22
Glycerides, C8-10 mono- and di-: 01-2119963379-22
Glycerol: exempted from the REACH registration requirements, based on Annex V No 9 of Reg. (EC) No 1907/2006

1.2 Relevant identified uses of the substance or mixture and uses advised against — Relevant identifies uses : cosmetic ingredient

1.3 Details of the supplier of the safety data sheet

Minasolve S.A.S.
145, Chemin des Lilas
F-59310 Beuvry-la-Forêt
+33 3 20 64 68 30

E-Mail (Writer SDS) sds@minakem.com

1.4 Emergency telephone number:
+33 3 20 64 68 30 (MINAKEM)
+33 1 45 42 59 59 (INRS - ORFILA)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 — The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P264 Wash thoroughly after handling.

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P280	Wear 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 in accordance with local/regional/national/international regulations.

2.3 Other hazards no data available

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Components:

CAS: 1117-86-8 EINECS: 214-254-7	octane-1,2-diol Eye Irrit. 2, H319	30-50%
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure limit	10-30%
CAS: 85536-07-8 EINECS: 287-488-0	Glycerides, C8-10 mono- and di-	30-50%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

After skin contact: Remove contaminated clothes, wash affected area with soap and water and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed no data available

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

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SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment :
Water spray, foam, carbon dioxide (CO2), dry chemical

5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire : CO

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protection equipment recommended in section 8

6.2 Environmental precautions: Keep contaminated washing water and dispose of appropriately.
Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store at room temperature and dry conditions in well sealed receptacles.

7.3 Specific end use(s) no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
56-81-5 glycerol	
WEL	Long-term value: 10 mg/m³

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8.2 Exposure controls
Personal protective equipment:

General protective and hygienic measures: Ensure good ventilation/exhaustion at the workplace.

Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Wear protective gloves

Material of gloves (recommendation) : Neoprene or nitrile gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection:

Wear safety goggles

Check that an emergency eyewash facility is available near the handling zone

Body protection:

Wear protective work clothing: safety shoes, apron

Check that a security shower is available near the handling zone

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear liquid
Colour:	Colorless to slightly yellow
Odour:	Weak, characteristic
Odour threshold:	no data available
pH-value at 20 °C:	neutral (aqueous solution)
Melting point:	<0 °C
Initial boiling point and boiling range:	267 °C (Octane-1,2-diol)
Evaporation rate:	no data available
Flash point:	140.5 °C (Octane-1,2-diol)
Flammability (solid, gas):	not applicable
Decomposition temperature:	> 100 °C

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Auto-ignition temperature:	not applicable
Explosive properties:	not applicable
Explosion limits:	not applicable
Oxidising properties:	not applicable
Vapour pressure:	no data available
Density:	
Relative density at 20 °C:	1.00-1.04 g/ml
Vapour density:	Not determined.
Solubility(ies)	
water:	Hardly soluble
Partition coefficient: n-octanol/water:	Octane-1.2-diol: 2.1 log POW at 25 °C Glycerides, C8-10 mono- and di-: 3.24 log POW at 22 °C Glycerol: -1.75 log POW at 25 °C
Viscosity:	no data available
9.2 Other information	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability	no data available
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	no data available
10.5 Incompatible materials:	no data available
10.6 Hazardous decomposition products:	Formation of toxic gases is possible during heating or in case of fire : CO

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:	Caprylyl Glycol : - Oral (OECD 401, EU B.1, acute oral toxicity, rat): LD50 > 2000 mg/kg bw - Dermal (acute dermal toxicity): Waiving, as this study was considered to be scientifically unjustified. Glyceryl Caprylate/Caprate : - Oral (OECD 401, mouse): LD50 > 23 625 mg/kg bw - Dermal (OECD 402, rat, 24 h): LD50 > 2 000 mg/kg bw - Inhalation (OECD 403, rat, 6h): LC50 > 1.860 mg/L air

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Primary irritant effect:

Skin corrosion/irritation

Caprylyl Glycol :
- Skin irritation: not irritating

Glyceryl Caprylate/Caprate :
- Skin (EPA OPP 81-5, rabbit): Not irritating

Serious eye damage/irritation

Causes serious eye irritation.
Caprylyl Glycol :
- Eye irritation (EU B.5, eye irritation/corrosion, rabbit): Irritating to eyes

Glyceryl Caprylate/Caprate :
- Eye (EPA OPP 81-4, rabbit): Not irritating

Respiratory or skin sensitisation

HRIPT: negative
Repeated applications of EasySafe GC 8 under occlusive patch (9 consecutive applications within 30 days, Finn Chamber, 20 µl per patch), on a panel of 51 subjects - 11 of which with sensitive skin - induced no irritation and no allergic reaction on skin. In conclusion, EasySafe GC 8 shows very good skin compatibility.

Repeated dose toxicity

Caprylyl Glycol :
In the 90-day oral toxicity study with octane-1,2 -diol the no-observed-adverse-effect- level (NOAEL) for general toxicity was 150 mg/kg bw/day; no specific organ toxicity or adverse effects on blood parameters were observed (OECD Guideline 408, Repeated Dose 90-Day Oral Toxicity in Rodents)

Glyceryl Caprylate/Caprate :
Oral (OECD 407, rat): NOAEL = 1000 mg/kg bw/day

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Caprylyl Glycol :
The genotoxic potential of octane-1,2-diol was tested in three in vitro Ames (OECD 471 or other adequate references), one in vitro Chromosome aberration (Notification 1604 MHW Japan 1999, similar to OECD 473) and one in vitro gene mutation (OECD 476) tests, each with and without metabolic activation (+/- S9 mix). In each of these studies, consistent, reproducible and toxicologically relevant indications of genotoxicity were not evident.

Glyceryl Caprylate/Caprate :
No adverse effect observed (negative):
Mutagenicity in bacteria, clastogenic effects in mammalian cells, mutagenicity in mammalian cells.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Caprylyl Glycol :
In the developmental toxicity study at the high dose level of 1000 mg/kg body weight/day reduced foetus weights were observed. However, at this dose level in repeat dose studies significant effects on body weight gain of adult rats were observed that might be due to disruption of the gut microbiota

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by the antimicrobial activity of octane-1,2 -diol leading to imbalanced nutrition. Thus, the effect observed in the developmental toxicity study very likely is a secondary non-specific consequence of maternal malnutrition.
With regard to classification of octane-1,2 -diol the situation is considered inconclusive.

Glyceryl Caprylate/Caprate :
- No effects on reproduction (OECD Guideline 422).
- No effect on intrauterine development (OECD Guideline 426).

STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Caprylyl Glycol :
LC50 (Fish, 96 h, Brachydanio rerio) = 2.2-22 mg/L (OECD TG 203)
EC50 (Daphnia magna, 48h) > 100 mg/L (OECD TG 202)
ErC50 (Freshwater algae, 72 h, Pseudokirchneriella subcapitata) = 35 mg/L (OECD 201)

Glyceryl Caprylate/Caprate :
- Short-term toxicity to fish and aquatic invertebrates: no toxicity up to the limit of water solubility (WS 46 mg/L).
- Toxicity to aquatic algae and cyanobacteria:
ErL50 (72h, nominal, loading rate) = 49 mg/L
NOErLR (72h, nominal, loading rate) = 20.7 mg/L
NOEC (72h, measured concentration) = 1.19 mg/L
- Toxicity to microorganisms:
NOEC = 46.9 mg/L (from ready biodegradation test, 81.1% biodegradation in toxicity control within 14 days).

12.2 Persistence and degradability

Caprylyl Glycol :
Readily biodegradable.
Biodegradation in water, screening tests:
- Aerobic biodegradation 85% and 75% (ThOD) in 28 days (OECD 301F, EU C.4-D and OECD 301D, EU C.4-E)
- Anaerobic biodegradation 70% (ThIC) in 60 days (OECD 311)

Glyceryl Caprylate/Caprate :
Readily biodegradable: 82.6% within 28 days (OECD 301B).

12.3 Bioaccumulative potential

Caprylyl Glycol :
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Glyceryl Caprylate/Caprate :
Based on the available data on aquatic bioaccumulation it can

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be assumed that the substance has a low potential to bioaccumulate in terrestrial ecosystem.

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment no data available

12.6 Other adverse effects no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not allow product to reach sewage system or any water course
Must be specially treated adhering to official regulations.
Incineration according to regulation in force
Do not allow to penetrate the ground/soil

SECTION 14: Transport information

14.1 UN-Number
ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name
ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Void

14.4 Packing group
ADR, IMDG, IATA Void

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code not applicable

UN "Model Regulation": Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture No further relevant information available.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

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15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases H319 Causes serious eye irritation.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

*** Data compared to the previous version altered.**