

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

Printing date 21.04.2020

Version n° 10

Revision: 21.04.2020

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

1.1 Product identifier

Octane-1,2-diol

Trade Name :

Octiol

INCI Name :

Caprylyl glycol

MINASOLVE Code:

PFS0009

REACH Registration number :

01-2119966905-22

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)

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 substance 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.
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.

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P337+P313

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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

3.1 Chemical characterisation: Substances

Chemical Name	Octane-1,2-diol
Identification numbers:	CAS N° : 1117-86-8 EC N° : 214-254-7 INDEX N° : -
Concentration:	≥ 98%
Formula :	C ₈ H ₁₈ O ₂
Formula weight :	146.2g/mol

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. Then 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.

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

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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.
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
Carry out filling operations only at sites with extractors available.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Protect from heat and direct sunlight.
This product is hygroscopic.
Protect from humidity and water.
Avoid contact with air / oxygen.
Store at room temperature and dry conditions in well sealed receptacles.
Storage time : 36 months

Recommended storage temperature:

< 40°C

7.3 Specific end use(s)

no data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs

Dermal : 0.5 mg/kg/d (General)

1 mg/kg/d (Worker)

Inhalation : 1.74 mg/m³ (General)

7 mg/m³ (Worker)

PNECs

10 mg/l (Station wastewater treatment)

0.003 mg/kg (Soil)

0.0022 mg/l (Inland)

0.00022 mg/l (Seawater)

0.0031 to 0.031 mg/kg (sediment)

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.

Short term filter device:

Filter A/P2

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.

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Waxy solid or clear colourless liquid
Colour:	White solid or colourless liquid
Odour:	Characteristic
Odour threshold:	no data available
pH-value:	no data available
Melting point:	28-31 °C (OECD 102, EU A.1)
Initial boiling point and boiling range:	267 °C (OECD 103, EU A.2)
Evaporation rate:	no data available
Flash point:	140.5±1.0 °C (101325Pa) (EU A.9, OPPTS 830.6315, UN Manual Test Methods 32.4)
Flammability (solid, gas):	no data available
Decomposition temperature:	no data available
Auto-ignition temperature:	not applicable
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	no data available
Oxidising properties:	No oxidizing properties
Vapour pressure:	0.28 Pa at 25 °C 0.15 Pa at 20°C (OECD 104, EU A.4)
Density:	
Relative density at 20 °C:	0.93 g/cm ³ (OECD 109, EU A.3)
Vapour density:	no data available
Evaporation rate	no data available
Solubility(ies)	
water:	7.5 g/L at 20 °C, pH 6.3 (OECD 105 and EU A.6)
Partition coefficient: n-octanol/water at 25 °C:	2.1 log POW (OECD 117, EU A.8)
Viscosity:	
Dynamic at 20 °C:	116.4 mPa.s (OECD 114, EN ISO 12058-1:2002)
9.2 Other information	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical stability	
Conditions to be avoided:	No decomposition if used and stored according to specifications. The product is hygroscopic : protect against humidity and against water.
10.3 Possibility of hazardous reactions	no data available
10.4 Conditions to avoid	no data available

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10.5 Incompatible materials:

Oxidizing agents
Reducing agents
Acid anhydrides
Acid chlorides

10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire : CO.

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:

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	>7,015 mg/l (rat) (OECD 403)

Dermal (acute dermal toxicity): Waiving, as this study was considered to be scientifically unjustified.

Primary irritant effect:

Skin corrosion/irritation

Not irritating

Serious eye damage/irritation

Causes serious eye irritation.
(EU B.5, eye irritation/corrosion, rabbit)

Respiratory or skin sensitisation

Skin sensitisation

Formulations in paraffin containing 4.2% or 5.25% octane-1,2-diol (amongst other ingredients) were tested in a human repeated insult patch test [Modified Draize assay]. Reactions to the challenge application were not evident for any of these formulations. In response to induction applications only Grade 1 reactions were seen in a small number of subjects. Since Grade 1 reactions are minimal irritant responses, the tested formulations were judged neither to be significant irritants nor contact sensitizers.

Repeated dose toxicity

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)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

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.

Carcinogenicity

No data available on the carcinogenic effect.

Reproductive toxicity

In the developmental toxicity study at the high dose level of 1000 mg/kg body weight/day reduced foetus weights were

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STOT-single exposure
STOT-repeated exposure
Aspiration hazard

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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 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.

Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

EC50/48h	>100 mg/l (Daphnia magna) (OECD TG 202)
EC50/72h	35 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	>2.2-<22.2 mg/l (Brachydanio rerio) (OECD 203)
NOEC/72h	15 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

12.2 Persistence and degradability

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)

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

no data available

Other information:

COD value : 1290 mg O₂/g
 BOD₅ value : 535 mg O₂/g

Additional ecological information:

Solubility in water :
 7.5 g/L at 20 °C, pH 6.3 (OECD 105 and EU A.6)

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.

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Incineration according to regulation in force
Do not allow to penetrate the ground/soil

SECTION 14: Transport information

14.1 UN-Number	not applicable
14.2 UN proper shipping name	not applicable
14.3 Transport hazard class(es)	not applicable
14.4 Packing group	not applicable
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**

Substance is not listed.

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.

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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.**