

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

Printing date 22.02.2018

Version n° 6

Revision: 22.02.2018

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

1.1 Product identifier

DL-hexane-1,2-diol
CAS N° 6920-22-5

Trade Name :

Hexiol

INCI Name :

1,2-Hexanediol

MINASOLVE Code:

PFS0019

REACH Registration number :

01-2119987321-35-0007

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

P262

Do not get in eyes, on skin, or on clothing.

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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 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	DL-hexane-1,2-diol
Identification numbers:	CAS N° : 6920-22-5 EC N° : 230-029-6 INDEX N° : -
Concentration:	≥ 98.0%
Formula :	C ₆ H ₁₄ O ₂
Formula weight :	118.2g/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.
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

no data available

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SECTION 5: Firefighting measures

5.1 Suitable extinguishing

agents:

CO₂, powder or foam

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:

This product is hygroscopic.
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

no data available

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Ensure good ventilation/exhaustion at the workplace.

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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.

Recommended respiratory protection : A filter.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance:</u>	Liquid
<u>Colour:</u>	Colourless
<u>Odour:</u>	Slight characteristic odor
<u>Odour threshold:</u>	no data available
<u>pH-value:</u>	no data available
<u>Melting point:</u>	-25 °C
<u>Initial boiling point and boiling range:</u>	223-224 °C (Lit.)
<u>Evaporation rate:</u>	no data available
<u>Flash point:</u>	114 °C (w 101.3 kPa)
<u>Flammability (solid, gas):</u>	no data available
<u>Decomposition temperature:</u>	no data available
<u>Auto-ignition temperature:</u>	350°C at 972 mBar
<u>Explosive properties:</u>	no data available
<u>Explosion limits:</u>	no data available
<u>Oxidising properties:</u>	no data available
<u>Vapour pressure at 25 °C:</u>	0.576 Pa

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Density:

Relative density at 25 °C: 0.950-0.955 g/cm³

Vapour density: no data available

Solubility(ies)

water: Very soluble

alcohols: Very soluble in :
Ethanol

Partition coefficient: n-octanol/water: 0.69 log POW (prediction by software)

Viscosity:

Dynamic at 20 °C: 87 mPa.s (Lit.)

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Conditions to be avoided:

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials:

Bases
Oxidizing agents
Acids
Reducing agents

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	6166 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h	> 7015 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation

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

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

Additional toxicological information:

no data available

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Irritation and corrosivity

Eyes : Severe irritation (Rabbit)
Skin : Non-irritating to skin (Rabbit 0.5 mg/4H - OECD 404)

Sensitisation

LLNA negative => Not sensitizing

Repeated dose toxicity

Oral : NOAEL = 500 mg/kg/day
Dermal : NOAEL = 700 mg/kg/day
LOAEL = 1000 mg/kg/day

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Mutagenicity :
AMES test (Salmonella Typhimurium): negative
Based on available data, the classification criteria are not met.

Carcinogenicity

Reproductive toxicity

Reproductive toxicity :
NOEL = 300 mg/kg/day
No effect on the reproduction
No teratogenic

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.

SECTION 12: Ecological information

12.1 Toxicity

CE50(Daphnia) : ~ 1000 mg/L/48h

12.2 Persistence and degradability

Zahn Wellens assay(DOC, 13 days - activated sludge) :
biodegradability 100%

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
Log Kow : 0.69 (Prediction by software)

12.4 Mobility in soil

Prediction by software :
Koc = 1
Log Koc = 0
Adsorption on soil solid phase: not expected

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

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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

<u>14.1 UN-Number</u>	not applicable
<u>14.2 UN proper shipping name</u>	not applicable
<u>14.3 Transport hazard class(es)</u>	not applicable
<u>14.4 Packing group</u>	not applicable
<u>14.5 Environmental hazards:</u>	not applicable
<u>14.6 Special precautions for user</u>	not applicable
<u>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</u>	not applicable
<u>UN "Model Regulation":</u>	Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

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)
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.**