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

Printing date 21.12.2015 Version n° 9 Revision: 21.12.2015

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

1.1 Product identifier	**Pentane-1,2-diol** **CAS N° : 5343-92-0**
Trade Name :	Pentiol
INCI Name :	Pentylene Glycol
MINASOLVE Code:	PFS0008
REACH Registration number :	01-2119491291-39
1.2 Relevant identified uses of the substance or mixture and uses advised against	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

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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

GHS05

Signal word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements

P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/ eye protection/face protection.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/ doctor/-
P501	Eliminate contents/container as hazardous waste.

2.3 Other hazards no data available

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

Chemical Name Pentane-1,2-diol

Identification numbers: CAS N° : 5343-92-0
EC N° : 226-285-3
INDEX N° : -

Concentration: ≥99%

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 no data available

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.

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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: Cover with sand or another absorbent material
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 no data available

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.

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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

General information:	
Appearance:	Liquid
Colour:	Colourless
Odour:	Odourless or faint
Odour threshold:	no data available
pH-value (500 g/l) at 20 °C:	7-8
Melting point:	< -30 °C
Initial boiling point and boiling range:	206 °C
Evaporation rate:	no data available
Flash point:	110 °C (DIN 51758)
Flammability (solid, gaseous):	Low flammability
Decomposition temperature:	No decomposition if the regulations / notes for storage and handling are observed
Auto-ignition temperature:	380 °C (DIN 51794)
Explosion limits:	
Lower:	1.7 Vol % (105.5 °C)
Upper:	9.3 Vol % (139 °C)
Oxidising properties:	no data available
Vapour pressure at 20 °C:	< 1 mbar
Density:	
Relative density at 20 °C:	0.966-0.976 g/cm³
Vapour density at 20 °C:	0.97 g/cm³
Evaporation rate	Not applicable.
Solubility(ies)	
water:	Very soluble
alcohols:	Very soluble in : Ethanol
Partition coefficient: n-octanol/water at 25 °C:	0.06 log Kow
Viscosity:	Dynamic : 77.1 mPa.s (20 °C) 22.9 mPa.s (40 °C) Kinematic : 79.4 mm2/s (20 °C) 24 mm2/s (40 °C)

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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 decomposition if used and stored according to specifications.
Heat, ignition sources

10.3 Possibility of hazardous reactions no data available

10.4 Conditions to avoid no data available

10.5 Incompatible materials: Oxidizing agents

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:

Oral	LD50 (static)	> 5000 mg/kg (rat)
Dermal	LD50 (static)	> 2000 mg/kg (rat)
Inhalative	LC50/4 h (static)	> 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 damage.

Respiratory or skin sensitisation Not sensitizing to skin.

Irritation and corrosivity Eyes : Serious eye damage/eye irritation - rabbit : irreversible effects (OECD Method 405)
Skin : Non-irritating

Repeated dose toxicity Oral NOAEL = 1000 mg/kg/day
Dermal NOAEL = 700 mg/kg/day

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity AMES test negative
Chromosomal aberration test : Negative

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

Reproductive toxicity No effects on reproduction
Not 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.

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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:	
EC50/48h (static)	> 500 mg/l (Daphnia magna)
LC50/96h (static)	> 1000 mg/l (Zebra fish)

12.2 Persistence and degradability Easily biodegradable
Elimination rate > 90 % (8 Days)

12.3 Bioaccumulative potential Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
Log Kow = 0.06 (25 °C)

12.4 Mobility in soil Koc = 1
Log Koc = 0
Adsorption of soil on solid phase is not expected

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	not applicable
ADR, IMDG, IATA	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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/

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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:

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
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 Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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