GLICOLE ANTICONGELANTE ATOSSICO BIODEGRADABILE
NON-TOXIC BIODEGRADABLE ANTIFREEZE GLYCOL

Safety data sheet of 10/6/2022, revision 1

SAFETY DATA SHEET

Safety data sheet in compliance with European Directive No. 1907/2006 and GHS 1272/2008 (CLP) (Implementation of 3rd EEC adaptation) and Regulation (EU) 2020/878
The list of our raw materials used is communicated to the MINISTRY OF HEALTH as per Ministerial Decree of 9/04/2000 and art. 15 Legislative Decree No. 65 of 14/03/2003

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product identification: NO ICE ECO USP
CAS: 57-55-6; EC No.: 200-338-0; REACH No.: 01-2119456809-23
PROPYLENE GLYCOL EP/USP/'E1520' GRADE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Chemical product for industrial use. Solvent (for industrial and professional use only).
Uses advised against: All uses not indicated in the recommended uses

1.3. Details of the supplier of the safety data sheet

DISTRIBUTOR NAME: POLSINELLI ENOLOGIA SRL, Via Carnello, 323 – 03036 Isola del Liri (FR) (Italy)
0776/869068 (from 8:30 a.m. to 5:30 p.m.) – info@polsinelli.it – www.polsinelli.it
Competent person responsible for the safety data sheet: logistica@polsinelli.it

1.4. Emergency telephone number

Niguarda Ca' Granda Hospital – Milan – Piazza Ospedale Maggiore, 3, 20162. Tel: 02-66101029
Papa Giovanni XXIII Hospital – Bergamo – Piazza OMS, 1, 24127. Tel: 800883300
Verona Integrated University Hospital – Verona – Piazzale Aristide Stefani, 1, 37126. Tel: 800011858
CAV National Centre for Toxicological Information – Pavia – Via S. Maugeri, 10, 27100. Tel: 0382-24444
CAV "Umberto I" Polyclinic – Rome – V.le del Policlinico, 155, ZIP: 161. Tel: 06-49978000
CAV "A. Gemelli" Polyclinic – Rome – Largo Agostino Gemelli, 8, ZIP: 168. Tel: 06-3054343
CAV "Bambino Gesù Pediatric Hospital" Emergency and Acceptance Dept. DEA – Rome – Piazza Sant'Onofrio, 4, 00165. Tel: 06 68593726
Az. Osp. "Careggi" Medical Toxicology Unit – Florence – Largo Brambilla, 3, 50134. Tel: 055-7947819
Foggia University Hospital – Foggia – V.le Luigi Pinto, 1, 71122. Tel: 800183459
Az. Osp. "A. Cardarelli" – Naples – Via A. Cardarelli, 9, 80131. Tel: 081-5453333

Isola del Liri, 03/01/2025

SECTION 2: HAZARDS IDENTIFICATION

The product is not classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP].

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]: None

2.2 Label elements: None

2.3 Other hazards

No PBT, vPvB or endocrine disruptor substance present in concentration ≥ 0.1%
Other hazards: No other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Substance name: PROPANE-1,2-DIOL Conc.: ≥ 99.5% [mass]
CAS No.: 57-55-6
EC No.: 200-338-0
REACH No.: 01-2119456809-23

3.2. Mixtures: N/A

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: In all cases of doubt or if symptoms persist, seek medical attention.
In case of inhalation: Provide fresh air.
In case of skin contact: Wash with water and rinse.
After eye contact: Rinse with running water for several minutes keeping eyelids well open.
In case of ingestion: Rinse mouth thoroughly and drink plenty of water.
4.2 Most important symptoms and effects, both acute and delayed: None in particular
4.3 Indication of any immediate medical attention and special treatment needed: None

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: CO_2, powder or water spray. Extinguish large fires with water spray or alcohol-resistant foam.
Unsuitable extinguishing media: Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products. Possible formation of carbon oxides.

5.3 Advice for firefighters

Move unprotected and unauthorized persons away from the danger area.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Comply with safety measures governing the handling of chemicals. Move unprotected and unauthorized persons away from the danger area.

6.2 Environmental precautions: Do not release into sewers or groundwater.

6.3 Methods and material for containment and cleaning up

For containment: Collect with absorbent substances (sand, diatomaceous earth, acid binder, universal binder).
For cleaning: After collection, wash the area and materials concerned with water, recovering the water used and where appropriate sending it for disposal in authorised facilities.

6.4 Reference to other sections

Personal protection: see part 8. Disposal considerations: see part 13.

SECTION 7: HANDLING AND STORAGE

For transport, storage and handling, only use suitable materials.

7.1 Precautions for safe handling

Handle observing good industrial hygiene and adequate safety measures. Do not breathe gases / fumes / vapours / aerosols.
See also paragraph 8 below.

7.2 Conditions for safe storage, including any incompatibilities

Indications for joint storage
Storage class: 10
Further indications for storage conditions: Keep container in a well-ventilated place.

7.3 Specific end uses: See section 1.2

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DNEL / PNEC values
DNEL / DMEL

Limit value type	Route of exposure	Frequency	Limit value
DNEL Consumer (local) — PROPANE-1,2-DIOL	Inhalation	Long-term	10 mg/m³
DNEL Consumer (systemic) — PROPANE-1,2-DIOL	Inhalation	Long-term	50 mg/m³
DNEL Worker (local) — PROPANE-1,2-DIOL	Inhalation	Long-term	10 mg/m³
DNEL Worker (systemic) — PROPANE-1,2-DIOL	Inhalation	Long-term	168 mg/m³

PNEC (PROPANE-1,2-DIOL; CAS No. 57-55-6)

Limit value type	Limit value
PNEC (Aquatic, freshwater)	260 mg/l
PNEC (Aquatic, intermittent release)	183 mg/l
PNEC (Aquatic, marine water)	26 mg/l
PNEC (Sediment, freshwater)	572 mg/kg
PNEC (Sediment, marine water)	57.2 mg/kg
PNEC (Soil)	50 mg/kg

8.2 Exposure controls

Personal protection

Eye / face protection

Suitable eye protection: Safety glasses with side shields (EN 166).

Skin protection

Hand protection: Wear rubber gloves approved according to standard EN 374. Use protective gloves made of natural rubber (latex) or nitrile rubber.

Respiratory protection

Suitable respirator: If necessary, wear a self-contained breathing apparatus conforming to a European standard (EN 139) or equivalent.

General information: Ventilate the environment well. Observe the usual safety measures when handling chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Characteristic, weak
Melting point / freezing point (1013 hPa)	< −20 °C
Vapour density (air = 1)	Data not available
Initial boiling point and boiling range (1013 hPa)	184 °C
Decomposition temperature	Not determined
Auto-flammability	Data not available
Flash point	104 °C
Auto-ignition temperature	> 400 °C
Flammability (solids, gases)	Not applicable
Lower explosive limit	= 2.6 Vol-%
Upper explosive limit	= 12.6 Vol-%
Explosive properties	Non-explosive product
Vapour pressure (20 °C)	0.2 hPa
Density (20 °C)	1.035 – 1.037 g/cm³
Solubility in water (20 °C)	Miscible
pH	7.1 – 7.8
Log Pow (20 °C)	−1.07
Viscosity (20 °C)	42.1 mm²/s
Surface tension (20 °C)	71.6 mN/m
Odour threshold	Data not available
Evaporation rate	= 0.01
Oxidising properties	Non-oxidising
Particle size	N/A

9.2. Other information: No other relevant information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: No hazardous reactions if stored and used appropriately.
10.2 Chemical stability: The product is stable under recommended storage and use conditions (see paragraph 7).
10.3 Possibility of hazardous reactions: No hazardous reactions if stored and used appropriately.
10.4 Conditions to avoid: Avoid high temperatures or direct sunlight.
10.5 Incompatible materials: Strong acids. Isocyanates. Oxidising agents.
10.6 Hazardous decomposition products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

The product does not present particular risks to human health.

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity: No adverse effects detected
Acute oral toxicity
Parameter: LD50 (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Oral — Species: Rat — Effective dose: = 22000 mg/kg dw
Acute dermal toxicity
Parameter: LD50 (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Dermal — Species: Rabbit — Effective dose: > 2000 mg/kg dw
Irritation and Corrosivity — Irritant power: Non-irritant
Respiratory or skin sensitisation: No sensitising effects known.
Toxicity after repeated exposure (subacute, subchronic, chronic): No target organ toxicity detected.
Subacute oral toxicity
Parameter: NOAEL(C) (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Oral — Species: Rat (male) — Effective dose: 1700 mg/kg
Subacute inhalation toxicity
Parameter: NOAEC (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Inhalation — Species: Rat (male) — Effective dose: 2200 mg/m³
CMR effects (carcinogenic, mutagenic, toxic for reproduction): No mutagenic, carcinogenic or reprotoxic effects known.
Carcinogenicity
Parameter: NOAEL(C) (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Rat (male) — Effective dose: 1700 mg/kg
Reproductive toxicity: Possible adverse effects on developmental toxicity
Parameter: NOAEL (Foetal development) (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Route: Mouse — Effective dose: 10400 mg/kg bw/day
Aspiration hazard: Not applicable.

11.2. Information on other hazards

Endocrine disruptor properties: No endocrine disruptor present in concentration ≥ 0.1%

SECTION 12: ECOLOGICAL INFORMATION

Use according to good working practices, avoiding releasing the product into the environment.

12.1 Toxicity

Aquatic toxicity
Acute (short-term) toxicity to fish
Parameter: LC50 (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Species: Oncorhynchus mykiss — Effective dose: = 40613 mg/l — Exposure time: 96 h
Acute (short-term) toxicity to crustaceans
Parameter: EC50 (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Species: Ceriodaphnia dubia — Effective dose: = 18340 mg/l — Exposure time: 48 h
Acute (short-term) toxicity to algae and cyanobacteria
Parameter: EC50 (PROPANE-1,2-DIOL; CAS No. 57-55-6) — Species: Skeletonema costatum — Effective dose: = 19000 mg/l — Exposure time: 96 h

12.2 Persistence and degradability

Biodegradation — Parameter: Biodegradation — Effective rate: 72 – 100 % — Exposure time: 28 d. Readily biodegradable.

12.3 Bioaccumulation potential: No bioaccumulation potential is foreseeable.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment

vPvB substances: None — PBT substances: None

This mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disruptor properties: No endocrine disruptor present in concentration ≥ 0.1%

12.7 Other adverse effects: None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of product / packaging: Dispose of according to current regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number	Non-hazardous goods according to transport regulations.
14.2. UN proper shipping name	N/A
14.3. Transport hazard classes	N/A
14.4. Packing group	N/A
14.5. Environmental hazards	N/A
14.6. Special precautions for users	N/A
14.7. Maritime transport in bulk according to IMO instruments	N/A

SECTION 15: REGULATORY INFORMATION

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

EU regulations

Regulation No. 1907/2006/EC (REACH).

Regulation No. 1272/2008/EC (CLP) and subsequent adaptations.

Regulation (EU) 2020/878

Other EU regulations

Regulation (EC) 1907/2006: Substance of Very High Concern (SVHC) included in the Candidate List: None

National regulations

Italy: Legislative Decree 81/2008 (Consolidated Act on the protection of health and safety in the workplace) and subsequent amendments, and Directive 2009/161/EU — chemical risk assessment pursuant to Title IX

Water hazard class (WGK)

Class: 1 (Slightly hazardous to water.) Classification according to VwVwS

Other rules, restrictions and legal requirements

Betriebssicherheitsverordnung (BetrSichV)

Calculation specifications (20)

15.2 Chemical safety assessment: A chemical safety assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

16.1 Indication of changes

Identification of substance/mixture and company/undertaking. Identification of hazards. Composition / Information on ingredients. First aid measures. Firefighting measures. Accidental release measures. Handling and storage. Exposure controls / personal protection. Physical and chemical properties. Stability and reactivity. Toxicological information. Ecological information. Disposal considerations. Transport information. Regulatory information.

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the international carriage of dangerous goods by road.
CAS	Chemical Abstracts Service (a division of the American Chemical Society).
CLP	Classification, Labelling, Packaging.
DNEL	Derived No-Effect Level.

EINECS	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO	Hazardous Substances Ordinance, Germany.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
IATA	International Air Transport Association.
IATA-DGR	Dangerous Goods Regulations of the "International Air Transport Association" (IATA).
ICAO	International Civil Aviation Organization.
ICAO-TI	Technical Instructions of the "International Civil Aviation Organization" (ICAO).
IMDG	International Maritime Dangerous Goods Code.
INCI	International Nomenclature of Cosmetic Ingredients.
KSt	Explosion coefficient.
LC50	Lethal Concentration for 50 percent of the tested population.
LD50	Lethal Dose for 50 percent of the tested population.
PNEC	Predicted No-Effect Concentration.
RID	Regulations concerning the international carriage of dangerous goods by rail.
STA	Acute toxicity estimate.
STAmix	Acute toxicity estimate (Mixtures).
STEL	Short-term exposure limit.
STOT	Specific Target Organ Toxicity.
TLV	Threshold Limit Value.
TWA	Time-Weighted Average.
WGK	German water hazard class.

16.3 Important indications of literature and data sources: No information available.

16.4 Classification procedures according to Regulation 1272/2008 (CLP): No information available.

16.5 Text of H- and EUH-phrases (Number and full text): No information available.

16.6 Indication for instruction: None

16.7 Additional indications:

This product must be stored, handled and used in accordance with hygiene and safety standards of good industrial practice and in accordance with current legal regulations. This safety data sheet and the data contained therein are the exclusive property of POLSINELLI ENOLOGIA SRL, and the same is delivered to the Customer exclusively for the uses provided for by law. The dissemination and/or circulation and/or reproduction of this safety data sheet in any way, as well as its delivery to third parties, is expressly prohibited.

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