

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: POLYPROPYLENE GLYCOL >1500

Synonyms; trade names: POLYOXYPROPYLENE GLYCOL, POLYOL, PPG, SYNALOX 100-D95, SYNALOX 100D280, SYNALOX 100-D450, POLYGLYCOL P 2000, POLYGLYCOL P4000, PPG 2000, PPG 2000 ELI LILLY, PPG 4000, LUPRANOL 1000/1, LUPRANOL 1000/2, POLYPROPYLENE GLYCOL 4000, LUPRANOL 1005/1, POLYPROPYLENE GLYCOL 2000, PLURIOL P 4000

REACH registration notes: Exempt -polymer exempt by Article 2(9)

CAS number: 25322-69-4

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Lubricant

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Environmental: The product is not expected to be hazardous to the environment.

Label elements:

Hazard statements: NC Not Classified

Other hazard:

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Product name: POLYPROPYLENE GLYCOL >1500
REACH registration notes: Exempt -polymer exempt by Article 2(9)
CAS number: 25322-69-4
Composition comments: The data shown are in accordance with the latest EC Directives.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed:

Eye contact: May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Specific hazards: Oxides of the following substances: Carbon.

Advice for firefighters:

Protective actions during firefighting: Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up:

Methods for cleaning up: Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

Specific end use(s): The identified uses for this product are detailed in Section 1.2

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Ingredient comments: No exposure limits known for ingredient(s).

DNEL:
Workers - Inhalation; Long term local effects: 10 mg/m³
Workers - Dermal; Long term systemic effects: 84 mg/kg/day
Consumer - Inhalation; Long term local effects: 10 mg/m³
Consumer - Dermal; Long term systemic effects: 51 mg/kg/day
Consumer - Oral; Long term systemic effects: 24 mg/kg/day

PNEC:
Fresh water; 0.1 mg/l
Marine water; 0.01 mg/l
Intermittent release; 1 mg/l - STP; 100 mg/l
Sediment (Freshwater); 0.765 mg/kg
Sediment (Marine water); 0.0765 mg/kg
Soil; 0.109 mg/kg

Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection: The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection: The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures: Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

Respiratory protection: No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. EN 136/140/141/145/143/149

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid.
Colour:	Colourless to pale yellow.
Odour:	Mild.
Odour threshold:	No information available.
pH:	No information available.
Melting point:	- 32°C
Initial boiling point and range:	No information available.
Flash point:	226 - 250°C OC (Open cup).
Evaporation rate:	No information available.
Evaporation factor:	No information available.
Flammability (solid, gas):	No information available.
Upper/lower flammability or explosive limits:	No information available.
Other flammability:	No information available.
Vapour pressure:	<1 mbar @ °C
Vapour density:	>1
Relative density:	1.002 - 1.005 @ 20°C
Bulk density:	No information available.
Solubility(ies):	Insoluble in water.
Partition coefficient:	No information available.

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Auto-ignition temperature: No information available.
Decomposition Temperature: No information available.
Viscosity: 135 - 725 cSt @ 40°C
Explosive properties: No information available.
Explosive under the influence of a flame: No information available.
Oxidising properties: No information available.

Other information:

Refractive index: No information available.
Particle size: No information available.
Molecular weight: 2000
Volatility: No information available.
Saturation concentration: No information available.
Critical temperature: No information available.
Volatile organic compound: No information available.

10. STABILITY AND REACTIVITY

Reactivity: There are no known reactivity hazards associated with this product.

Chemical stability:

Stability: Stable at normal ambient temperatures.

Possibility of hazardous reactions: Will not polymerise.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Incompatible materials:

Materials to avoid: Strong acids. Strong alkalis. Strong oxidising agents.

Hazardous decomposition products: Aldehydes. Acids - organic. Oxides of the following substances: Carbon.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity – oral:

Acute toxicity oral (LD₅₀ mg/kg): 10,000.0

Species: Rat

Skin corrosion/irritation Animal data: No information available.

Serious eye damage/irritation:

Serious eye damage/irritation: No information available.

[cont...]

Respiratory sensitisation:

Respiratory sensitisation: No information available.

Skin sensitisation:

Skin sensitisation: No information available.

Germ cell mutagenicity:

Genotoxicity - in vitro: No information available.

Carcinogenicity:

Carcinogenicity: No information available.

Reproductive toxicity:

Reproductive toxicity – fertility: No information available.

Specific target organ toxicity - single exposure:

STOT - single exposure: No information available.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: No information available.

Aspiration hazard:

Aspiration hazard: No information available.

Inhalation:

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion:

May cause discomfort if swallowed.

Skin contact:

Liquid may irritate skin.

Eye contact:

Vapour or spray in the eyes may cause irritation and smarting.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Toxicity:

Not considered toxic to fish.

Acute aquatic toxicity:

Acute toxicity – fish: LC₅₀, 96 hours: >100 mg/l, Fish

Acute toxicity - aquatic invertebrates: EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants: IC₅₀, 72 hours: >100 mg/l, Algae

Persistence and degradability:

The product is readily biodegradable.

Bioaccumulative potential:

The product is not bioaccumulating. Partition coefficient No information available.

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Mobility in soil:

Mobility: The product is insoluble in water.

Results of PBT and vPvB assessment: This substance is not classified as PBT or vPvB according to current EU criteria.

Other adverse effects: No information required.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General information: Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses.

14. TRANSPORT INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

UN number: No information required.

UN proper shipping name: No information required.

Transport hazard class(es): No information required.

Packing group: No information required.

Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user: No information required.

Transport in bulk according to Annex II of MARPOL and the IBC Code:

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: No information required.

[cont...]

15. REGULATORY INFORMATION

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

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

Chemical safety assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet:

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC₅₀: 50% of maximal Effective Concentration.

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LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Classification abbreviations and acronyms:

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.