

	SAFETY DATA SHEET Drawn up in line with Regulation (EC) 1907/2006	Drawn up on: 28 May 2021
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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name: **PROPYLENE GLYCOL**

Name: Propane-1,2-diol

INCI name: Propylene Glycol

Synonyms: 1,2-propane diol, monopropylene glycol, MPG

CAS No.: 57-55-6

EC No.: 200-338-0

Registration No.: 01-2119456809-23-0273

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE or MIXTURE and USES ADVISED AGAINST

Identified uses:

PROPYLENE GLYCOL is used as a raw material in the food, chemical, medicine and pharmacy industries. Production of substance. Distribution of substance. Formulation and repackaging of substances and mixtures. Production of polymers. Production of special fluids. Production and processing of rubber. De-icing and anti-icing applications. Use in fuels. Use in coatings. Use in cleaning agents. Use as a laboratory reagent. Chemicals for the treatment and purification of water. Production and processing of rubber.

Uses advised against

Product cannot be used for the production of electronic cigarette liquids.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer: **ORLEN Południe S.A.**
Address: ul. Fabryczna 22, 32-540 Trzebinia, Poland
Phone/Fax: +48 24 201 00 00 / +48 24 367 74 14
e-Mail: reach.poludnie@orlen.pl - Technology and Development

Supplier: **Polski Koncern Naftowy ORLEN S.A.**
Address: ul. Chemików 7, 09-411 Płock, Poland
Phone/Fax: +48 24 365 00 00 / +48 24 365 45 55
e-Mail: reach@orlen.pl

1.4. EMERGENCY TELEPHONE NUMBER

State Fire Service: 998 or 112 (using a mobile phone)

Ambulance Service: 999 or 112 (using a mobile phone)

SECTION 2. HAZARDS IDENTIFICATION

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2.1. CLASSIFICATION OF THE SUBSTANCE or MIXTURE

The classification according to Regulation (EC) No. 1272/2008 (CLP). The substance is not classified as hazardous to human health and life or to the environment.

Physical and chemical hazards:

none

Hazards to people:

none

Environmental hazards:

none

2.2. LABEL ELEMENTS

Pictogram: none

Hazard statement: none

GHS hazard statements: none

Precautionary statements: none

2.3. OTHER HAZARDS

The substance does not meet PBT or vPvB criteria in compliance with Annex XIII of the REACH Regulation. The substance does not create a hazard to humans and to the environment. It may irritate the eyes (in case of direct contact), stomach and mucous membranes (if ingested).

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Substance	CAS	% share	Classification (EC) 1272/2008	
Propane-1,2-diol <i>REACH registration No.:</i> 01-2119456809-23-0273	57-55-6	99 - 100	-	-

3.2. MIXTURES

Not applicable - the product is a substance

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

If inhaled

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Move the exposed person to fresh air, keep him/her warm and calm. Consult a doctor if disturbing symptoms occur.

If on skin

Take off contaminated clothes and footwear. Put it in a safe place. Wash contaminated skin with soap and water, and then rinse thoroughly with plenty of water. Consult a doctor if disturbing symptoms occur.

If in eyes

Remove contact lenses, if present. Rinse contaminated eyes immediately with a running stream of water for about 15 minutes with the eyelids open wide open. Note: protect the uncontaminated eye. In case of irritation or any other symptoms (swelling, blurred vision), seek medical attention from an ophthalmologist. *NOTE:* Do not use too strong a stream of water, so as not to damage the cornea.

If swallowed

Rinse out mouth with water. Call a physician if feeling unwell.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No known significant effects or critical hazards with correct use of the product.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The decision on the rescue procedure is made by the doctor after an assessment of the injured person's condition. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

General recommendations

A flammable substance. In the event of a fire, hazardous fire gases or vapours may be generated. Inform all people around about fire; remove everyone that does not take part in elimination of the failure from the hazardous area; if necessary, order evacuation; call rescue teams, Fire Service and the Police.

5.1. EXTINGUISHING MEDIA

Suitable: CO₂, powder, foam extinguisher

Unsuitable: pressurised water jets; *NOTE:* do not extinguish with water

Avoid using foam and water simultaneously on the same surface as water destroys foam.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Fumes which may contain hazardous oxides, carbon oxide, carbon dioxide, are generated in a fire environment. Avoid inhalation of combustion products, they may be hazardous to health.

5.3. ADVICE FOR FIRE FIGHTERS

Follow the procedures applicable to chemical fires.

Large fires from a safe distance, through covers, using remote sprinkler devices or remote-controlled monitors. Cool down containers exposed to fire or high temperature with diffused water currents, from a safe distance (risk of explosion); as far as **possible and safe**, remove them from the hazardous area.

Sewage and fire residues should be disposed of in accordance with applicable regulations.

Persons participating in fire extinguishing activities should be trained, wear a full set of protective clothing resistant to fire,

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be equipped with eye/face protections and air overpressure breathing apparatus that isolates the respiratory tract.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

NOTE: Area at risk of a fire.

Exercise caution - spilled, the substance makes the surface slippery.

Inform all people around about the failure; remove everyone that does not take part in elimination of a failure from the hazardous area; if necessary, order evacuation. Isolate the leakage area.

Eliminate all sources of ignition - do not use open flame, do not smoke cigarettes etc.

Avoid direct contact with the liquid released.

In the case of minor leaks, suitable protective clothing and protective gloves will suffice; heat-resistant, if contact with the hot product is possible.

See also section 8 of the safety data sheet.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent release of the substance to storm drains, water, ground, sewage system.

If possible and safe, liquidate or reduce leakage (seal, close liquid supply; put damaged packaging in an emergency package).

Limit the spread of the spilled product by embanking the area. In case of large spills, if possible, cover the spill area with foam in order to reduce the risk of fire.

If large amounts of the substance are released and in the case of contamination of the environment, notify appropriate authorities (OHS services, rescue services, environmental protection services, administrative bodies).

6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Cover the released substance with a non-flammable absorptive material (sand, earth, diatomaceous earth, vermiculite), collect and put in a proper, sealed, marked container/tank for waste.

Neutralise in accordance with the effective regulations (see sections 13 and 15 of the safety data sheet).

In case of substance release into water, limit its spreading with floating barrage or other equipment and then collect it by absorbing the material using special floating absorbents, a skimmer, a special floating pump used to collect fuel from the surface of water.

6.4. REFERENCE TO OTHER SECTIONS

See sections 8, 13 and 15 of the safety data sheet.

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SECTION 7. HANDLING AND STORAGE

Based on available data, the product is not classified as hazardous - extraordinary measures are not necessary. Avoid direct contact with the substance.

7.1. PRECAUTIONS FOR SAFE HANDLING

In the place of use and storage of the substance, it is necessary to ensure easy access to rescue equipment (in case of a fire, release etc.).

Precautions for safe handling

Work in accordance with occupational health and safety rules. Avoid long-lasting contact with skin; avoid contamination of eyes and inhalation of vapours. Work in well ventilated rooms.

Use personal protection equipment in compliance with information published in section 8 of the safety data sheet.

Recommendations on fire protection and explosion protection

Eliminate any and all ignition sources. Apply precautions to prevent the accumulation of static electricity charges.

Protect containers/tanks against overheating.

Avoid contact with strong oxidants.

Occupational health and safety recommendations

Comply with the generally binding occupational health and safety provisions. Proceed in accordance with the good industrial hygiene principles.

Avoid the risk of slipping - immediately remove the spilled product.

Do not eat, do not drink, do not smoke in the substance manufacture, processing, use and storage place. Wash your hands with water and soap after the end of work. Do not use contaminated clothes. Take off contaminated

clothing, clean/wash before re-use.

Do not gather and do not keep materials contaminated with the substance at work stations, in pockets etc.

NOTE: Leave contaminated/saturated clothes, rags and other materials contaminated with the oil in a safe place, far from sources of heat and sources of ignition.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store only in original, tightly closed containers. Store in a well-ventilated place. Keep away from food and animal feed. Avoid direct sunlight and moisture.

Keep away from ignition sources. Protect against frost.

Comply with the ban on smoking cigarettes and on using open flame.

Keep away from strong oxidants.

Work related to cleaning, control and maintenance of the internal structure of storage tanks may only be performed by qualified and properly equipped personnel, in accordance with applicable regulations.

Storage installations should be designed so as not to contaminate water and soil in the event of a leak or spill.

Store at 5 - 30°C.

7.3. SPECIFIC END USE(S)

See subsection 1.2. For more information, please contact the manufacturer/supplier.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

The highest permissible concentrations in the work environment

TLV: 100 mg/m³ – vapour fraction

TLV-STEL: not specified

TLV-CL: not specified

*- the fraction of the aerosol penetrating the nose and mouth, which, when deposited in the respiratory tract, poses and health hazard, determined in accordance with PN-EN 481.

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the maximum permissible concentration and intensity of factors harmful to health in the working environment as amended

8.2. EXPOSURE CONTROLS

Observe general safety and hygiene rules. Do not eat, drink or smoke while working. Wash hands thoroughly before breaks and after work. Avoid eye and skin contamination.

Engineering controls

-

Personal protection equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of hazard posed by the substance, conditions at the workplace and the way of handling the substance.

Use protection measures from reputable manufacturers.

Personal protective equipment should meet the requirements specified in standards and regulations.

Respiratory protection

Not required

Hand protection

It is recommended to wear protective gloves resistant to the substance, e.g. made of nitrile rubber, with performance level 2 or higher when working with large amounts of the product.

Eye and face protection

Tightly fitting safety goggles are recommended if there is a risk of eye contamination.

Skin and body protection

Safety apron or other protective clothes of coated fabrics, resistant to the substance, protective anti-slip footwear. In case of exposure to hot oil, wear protective clothing and heat-resistant safety footwear.

Environmental exposure controls

Prevent release of the mixture into the environment. Consider securing the area around storage tanks. Comply with the standards concerning the acceptable environmental pollution specified in the applicable regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state	: liquid
b) Colour	: transparent
c) Odour	: odourless
d) Melting point/freezing point	: - 60°C
e) Boiling point/IBP/boilig	: IBP 184°C

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f) Flammability	: Not applicable – the product is not classified as flammable
g) Lower and upper explosion limit	: 12.5%v/v / 2.5%v/v
h) Flash point	: > 100 °C
i) Auto-ignition temperature	: >400 °C
j) Decomposition temperature	: no data
k) pH	: 6,5 – 7,5 (50% aqueous solution)
l) Kinematic viscosity	: 40 – 45 mm ² /s at 25°C
m) Solubility	: soluble in water, soluble in ethanol, ether, acetone and chloroform
n) Partition coefficient	: - 1.07
o) Vapour pressure	: 20 Pa at 25°C
p) Density	: 1,03 g/cm ³ at 15 °C
q) Relative vapour density	: Not determined

9.2. OTHER INFORMATION

No additional tests.

SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Not applicable.

10.2. CHEMICAL STABILITY

The product is stable under normal storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Not applicable.

10.4. CONDITIONS TO AVOID

Eliminate all ignition sources. Avoid heat. Protect from moisture.

10.5. INCOMPATIBLE MATERIALS

Strong oxidants, strong acids, strong bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Products released in the fire environment (carbon monoxide) – see section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO. 1272/2008

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The substance is not classified as hazardous to human health.

Acute toxicity

Acute toxicity, oral LD50 (rat): 22,000 mg/kg
 Acute toxicity, dermal LD50 (rabbit) 20,800 mg/kg
 Acute toxicity, inhalation: no data
 Based on the available test results, the product/substance:
 - is not classified as creating an acute toxicity hazard.

Skin corrosion/irritation

The product does not meet the skin irritation criteria and does not require classification in terms of this hazard.

Acute eye damage/eye irritation

The product does not meet the eye irritation criteria and does not require classification in terms of this hazard.

Respiratory tract irritation

The product does not meet the respiratory tract irritation criteria.

Sensitisation

Based on available data, the product is not classified as such which poses the risk of respiratory or skin sensitisation.

Repeated dose toxicity

The product has not been classified as hazardous.

Gametic mutagenicity

The product is not classified as mutagenic or genotoxic.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product has not been classified as reprotoxic.

Aspiration hazard

The product is not classified as causing aspiration toxicity.

11.2. INFORMATION ON OTHER HAZARDS

Other effects

Neurotoxicity Assessment of this hazard is not required.
 Immunotoxicity Assessment of this hazard is not required.

Symptoms and exposure effects

Irritation may occur in the event of eye contact. Mucous membrane and stomach irritation may occur after ingestion. Lung damage can occur after choking with the product.

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SECTION 12. ECOLOGICAL INFORMATION

General information

Based on an analysis of all available data characterising ecotoxicological properties the product meets the criteria of the substance hazardous to the environment.

12.1. TOXICITY

Toxicity to fish: LC50 - 40613 mg/L/96 h (*Oncorhynchus mykiss*)

Toxicity to invertebrates: EC50 – 18340 mg/L/48 h (*Ceriodaphnia dubia*), EC50 18800 mg/L/96 h (*Americamysis bahia*)

Toxicity to algae: EC50 19100 mg/L/72 h (*Skeletonema costatum*); EC50 19000 mg/L/96 h (*Pseudokirchneria subcapita*)

Toxicity to bacteria: NOEC >20,000 mg/L/18 h (*Pseudomonas putida*)

Chronic toxicity to fish: The product is not expected to cause chronic toxicity to fish.

Chronic toxicity to invertebrates: NOEC 13020 mg/L/7 days (*Ceriodaphnia dubia*)

12.2. PERSISTENCE AND DEGRADABILITY

75 - 80% of the substance is biodegraded within 28 days.

12.3. BIOACCUMULATIVE POTENTIAL

Not applicable

12.4. MOBILITY IN SOIL

No data.

12.5. RESULTS OF PBT and vPvB ASSESSMENT

Not applicable.

12.6. OTHER ADVERSE EFFECTS

No data.

ADDITIONAL INFORMATION ON BEHAVIOUR AND FATE IN THE ENVIRONMENT

Do not release the substance in greater amounts to ground water or sewage without diluting.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Classification of waste: appropriate to the place of generation based on the criteria laid down in the binding provisions.

If the product has been used in any further operations/processes, the end-user should define the waste generated and assign an appropriate code.

Handling the waste product

Do not dispose to sewage system. Prevent contamination of surface and ground waters. Do not store in municipal waste dumpsites. Consider reuse.

Recovery or treatment of the waste product should be performed in compliance with the applicable provisions. Recommended treatment method: thermal treatment.

Handling packaging waste

Empty tanks and containers may contain remnants of the material. Ensure that they are thoroughly cleaned.

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Recovery (recycling) or treatment of the packaging waste must be performed in compliance with the applicable provisions.

Reusable packaging should be reused after cleaning.

The waste treatment process must be carried out in professional, authorised waste incineration plants or waste recycling/treatment plants.

Dispose of in compliance with the applicable provisions:

Act of 14 December 2012 on waste (Journal of Laws of 2013, No 0, item 21, as amended).

Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws of 2013, No 0, item 888, as amended).

Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (Journal of Laws of 2014, item 1923).

SECTION 14. TRANSPORT INFORMATION

The substance is not subject to regulations on the transport of dangerous goods included in ADR (road transport), RID (rail transport), ADN (inland transport), IMDG (marine transport), ICAO/IATA (air transport).

14.1. UN NUMBER	Not applicable
14.2. UN PROPER SHIPPING NAME	Not applicable
14.3. TRANSPORT HAZARD CLASS(ES)	Not applicable
Hazard code	Not applicable
Warning label	Not applicable
14.4. PACKING GROUP	Not applicable
14.5. ENVIRONMENTAL HAZARDS	Not applicable.
14.6. SPECIAL PRECAUTIONS FOR USERS:	
ADR	Not applicable
14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS	Not applicable

SECTION 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Act of 25 February 2011 on chemical substances and mixtures thereof (Journal of Laws of 2011, No 63, item 322, as amended). Consolidated text (Journal of Laws of 2018, item 143);

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on the maximum permissible concentration and intensity of factors harmful to health in the working environment (Journal of Laws of 2018, item 1286), as amended;

Waste Act of 14 December 2012 Journal of Laws of 2013, item 21, as amended);

Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws of 2013, item 888, as amended);

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Regulation of the Minister of the Environment of 9 December 2014 on the waste catalogue (Journal of Laws of 2014, item 1923);

1907/2006/EC Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrigendum OJ L 136, 29.5.2007, as amended);

1272/2008/EC 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ EU L No 353, 31.12.2008, as amended);

2020/878/EU Commission Regulation No 2020/878//EU of 26 June 2020 r. amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

15.2 CHEMICAL SAFETY ASSESSMENT

No information on carrying out a chemical safety assessment.

SECTION 16. OTHER INFORMATION

UPDATES:

Amended section 1, 8, 9, 11, 13, 15. Adaptation of the MSDS to Commission Regulation no. 2020/878/EU of 26 June 2020 r. amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).

ADDITIONAL INFORMATION IMPORTANT FOR PROTECTION OF HEALTH AND THE ENVIRONMENT

The employer is obliged to observe the provisions specified in section 15 of the Safety Data Sheet (if it refers to a concrete case):

- training of staff members within the scope of the risk for health, hygiene requirements, use of personal protection equipment, measures preventing accidents, rescue proceedings etc.,
- monitoring of staff members' health state,
- controlling the working environment, in particular application of methods for early detection of exposure,
- keeping a register of works and a register of staff members,
- taking up measures and actions reducing exposure

Meaning of GHS hazard statements used in section 3

- Not applicable.

Abbreviations and acronyms used in the safety data sheet

TLV Threshold Limit Value
 TLV-STEL Threshold Limit Value, Short Term Exposure Limit
 TLV-CL Threshold Limit Value-Ceiling Level
 BLVs Biological Limit Values
 vPvB very Persistent, very Bioaccumulative (substance)
 PBT Persistent, Bioaccumulative and Toxic (substance)
 PNEC Predicted No Effect Concentration

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DNEL Derived No-Effect Level

NOAEL No Observed Adverse Effect Level

EbL

OECD Organisation for Economic Co-operation and Development

RID Regulations concerning the International Transport of Dangerous Goods by Rail

ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG The International Maritime Dangerous Goods Code

IATA The International Air Transport Association

References:

Regulations referred to in sections 2 – 15 of the Safety Data Sheet.

SCOPE OF RESPONSIBILITIES: The information in the Safety Data Sheet relates to the above-mentioned substance/mixture only and cannot be applied to similar products. The Safety Data Sheet was developed based on our best knowledge and collected up-to-date information. However, this information is provided without guarantees considered as binding (indirect or direct). Storage, use, liquidation as well as conditions and manners of handling this material by user are beyond our control. For these reasons, we cannot bear responsibility for losses, damage and costs which arise from or are in another way connected with storage, use, liquidation or manner of handling the material. This Safety Data Sheet was prepared only to provide information concerning risk for health, safety and environmental protection. It is not a specification of the substance.