



# PROPYLENE GLYCOL

## Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

Reference number: MPG

Issue date: 6/14/2010 Revision date: 1/16/2024 Supersedes version of: 5/27/2015 Version: 5.0

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : PROPYLENE GLYCOL  
EC-No. : 200-338-0  
CAS-No. : 57-55-6  
REACH registration No. : 01-2119456809-23  
Product code : MPG

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of product safety information sheet

INTERCHIMIE  
ZAC du Parc 13 rue Louis Blériot  
FR- 77290 COMPANS  
T T: +33 (0)1 64 77 76 27  
[qualite@interchimie.fr](mailto:qualite@interchimie.fr) - [www.interchimie.fr](http://www.interchimie.fr)

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : PROPYLENE GLYCOL  
CAS-No. : 57-55-6  
EC-No. : 200-338-0

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Name	Product identifier	%
propane-1,2-diol	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no: 01-2119456809-23	≥ 99

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: This product is not considered to be hazardous. When in doubt or if symptoms are observed, get medical advice.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: In high concentrations : Dry/sore throat.
Symptoms/effects after skin contact	: Causes mild skin irritation. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause slight irritation. Redness.
Symptoms/effects after ingestion	: Large amounts: Cramps/uncontrolled muscular contractions. Abdominal pain, nausea.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Water spray. Foam. Dry powder. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide.
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### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
Other information	: Prevent fire fighting water from entering the environment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Spill area may be slippery. Evacuate area.
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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

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### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : This product is not considered to be hazardous.  
Hygiene measures : Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight.  
Special rules on packaging : UV protection.  
Packaging materials : Stainless steel. Plastic.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

PROPYLENE GLYCOL (57-55-6)	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, inhalation	168 mg/m <sup>3</sup>
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, inhalation	50 mg/m <sup>3</sup>
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	260 mg/l
PNEC aqua (marine water)	26 mg/l
PNEC aqua (intermittent, freshwater)	183 mg/l

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PROPYLENE GLYCOL (57-55-6)	
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	572 mg/kg dwt
PNEC sediment (marine water)	57.2 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	50 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	20000 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Viscous liquid.
Odour	: Insignificant.
Odour threshold	: Not available
Melting point	: < -20 °C
Freezing point	: Not available
Boiling point	: 184 °C (1003.2 hPa)
Flammability	: Not flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 104 °C (1000.1 hPa)
Auto-ignition temperature	: > 400 °C (1000.1 hPa - 1014 hPa)
Decomposition temperature	: Not available
pH	: 6.5 – 7.5 (10%)
Viscosity, kinematic	: Not available
Solubility	: Soluble in water. Soluble in ethanol. Soluble in acetone. Ether: 12 g/100ml
Partition coefficient n-octanol/water (Log Kow)	: -1.07 (20.5°C) équivalent OCDE 107

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Vapour pressure	: 0.2 hPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.03 (20°C)
Relative vapour density at 20°C	: 2.6
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Specific conductivity : 4.4 µS/m

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

Hydroscopic.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

Protect from sunlight.

### 10.5. Incompatible materials

Oxidizing agent. Strong reducing agents. Strong acids. Water.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. fume.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

PROPYLENE GLYCOL (57-55-6)	
LD50 oral rat	22000 mg/kg bodyweight (équivalent OCDE 401)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (équivalent OCDE 402)

propane-1,2-diol (57-55-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	317 mg/l /2h

Skin corrosion/irritation	: Not classified pH: 6.5 – 7.5 (10%)
Serious eye damage/irritation	: Not classified pH: 6.5 – 7.5 (10%)
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

### PROPYLENE GLYCOL (57-55-6)

NOAEL (chronic, oral, animal/male, 2 years)	1700 mg/kg bodyweight (valeur expérimentale)
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

Additional information : Prolonged exposure to high concentration may cause adverse effects in target organs such as liver and kidney.  
Chronic renal insufficiency

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### PROPYLENE GLYCOL (57-55-6)

LC50 - Fish [1]	40613 mg/l 96h - oncothynchus mykiss
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EC50 - Crustacea [1]	18340 mg/l 48h - Ceriodaphnia dubia ( EPA 600/4-90/027)
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EC50 96h - Algae [1]	19000 mg/l 96h - Pseudokirchneriella subcapitata (OCDE 201)
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EC50 96h - Algae [2]	19100 mg/l 96h - Skeletonema costatum (OCDE 201)
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NOEC chronic crustacea	13020 mg/l EPA 600/4-89-001 - 7jours - Ceriodaphnia sp
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### propane-1,2-diol (57-55-6)

LC50 - Fish [1]	> 100 mg/l 96h
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EC50 - Crustacea [1]	> 100 mg/l 48h
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EC50 72h - Algae [1]	> 100 mg/l 72h
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### 12.2. Persistence and degradability

#### PROPYLENE GLYCOL (57-55-6)

Persistence and degradability	Biodegradable.
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Biodegradation	81.7 (<) % 28 days OCDE 301F
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#### propane-1,2-diol (57-55-6)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### PROPYLENE GLYCOL (57-55-6)

BCF - Fish [1]	0.09
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Partition coefficient n-octanol/water (Log Kow)	-1.07 (20.5°C) équivalent OCDE 107
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### PROPYLENE GLYCOL (57-55-6)

Bioaccumulative potential	No bioaccumulation.
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### propane-1,2-diol (57-55-6)

Partition coefficient n-octanol/water (Log Pow)	-1.07
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Bioaccumulative potential	No bioaccumulation.
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### 12.4. Mobility in soil

#### PROPYLENE GLYCOL (57-55-6)

Ecology - soil	Small adsorption.
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#### propane-1,2-diol (57-55-6)

Mobility in soil	< 1 (log Koc)
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### 12.5. Results of PBT and vPvB assessment

#### PROPYLENE GLYCOL (57-55-6)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not reported evidence concerning this effect.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
European List of Waste (LoW, EC 2000/532) : 07 01 99 - wastes not otherwise specified

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)



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### 15.1.2. National regulations

#### France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 280).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## SECTION 16: Other information

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

Data sources : This MSDS has been established with data of MSDS coming from upstream suppliers.

Safety Data Sheet (SDS), EU