

**Safety data sheet**  
according to Regulation (EU) No 1907/2006 revised

Printing date 03.10.2025

Version n° 8 (replaces version 7)

Revision: 03.10.2025

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

**1.1 Product identifier** **Propyl-3,4,5-trihydroxybenzoate**  
**CAS N° : 121-79-9**

**Trade Name :** Propyl Gallate

**MINAKEM Code:** PF1194 - 700121

**REACH Registration number :** 01-2120766869-29-0005

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

**1.3 Details of the supplier of the safety data sheet** Minakem Beuvry Production 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**



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**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**



GHS07 GHS09

**Signal word**

Warning

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**Hazard statements**

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust.  
P262 Do not get in eyes, on skin, or on clothing.  
P273 Avoid release to the environment.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**  
**Results of PBT and vPvB assessment**

This substance does not contain components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Determination of endocrine-disrupting properties**

This substance does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

**Chemical Name**

Propyl-3,4,5-trihydroxybenzoate

**Identification numbers:**

CAS N° : 121-79- 9  
EC N° : 204-498-2  
INDEX N° : 607-198-00-3

**Concentration:**

≥ 98%

**Specific concentration limits**

no data available

**M-factor**

no data available

**Acute toxicity estimate (ATE) values**

LD50 oral: 1,700 mg/kg

**Nanoform**

not applicable

**Formula :**

C10H12O5

**Formula weight :**

212.2g/mol

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**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**

Symptomatic treatment.

**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.

**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:**

Send for recovery or disposal in suitable receptacles.

**6.4 Reference to other sections**

See Section 13 for disposal information.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Provide suction extractors if dust is formed.

**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)**

Incompatible material : metals (specially iron), light  
no data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

no data available

**8.2 Exposure controls**

**Individual protection measures, such as 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.



Suitable respiratory protective device recommended:  
P3 respiratory filter

**Hand protection**



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.

**Eye/face protection**



Wear safety goggles

Check that an emergency eyewash facility is available near the handling zone

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**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**

<b>Physical state</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	no data available
<b>Melting point:</b>	148-150 °C
<b>Boiling point or initial boiling point and boiling range</b>	Decomposes.
<b>Flammability</b>	no data available
<b>Lower and upper explosion limit</b>	no data available
<b>Flash point:</b>	187 °C
<b>Decomposition temperature:</b>	no data available
<b>pH</b>	4.5 (0.1% in water)
<b>Viscosity:</b>	no data available
<b>Solubility</b>	
<b>water at 25 °C:</b>	3.5 g/l
<b>organic solvents:</b>	1030g/l at 25°C in ethanol 830g/l in diethylether
<b>Partition coefficient n-octanol/water (log value)</b>	2.6 log POW (calculated by ACD Labs)
<b>Vapour pressure:</b>	not applicable
<b>Density and/or relative density</b>	
<b>Relative density at 20 °C:</b>	1.21
<b>Vapour density:</b>	not applicable
<b>Particle characteristics</b>	See section 3.
<b>9.2 Other information</b>	no data available
<b>Appearance:</b>	Crystalline powder
<b>Ignition temperature:</b>	no data available
<b>Explosive properties:</b>	no data available
<b>Evaporation rate:</b>	not applicable
<b>Oxidising properties:</b>	no data available

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void

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<b><u>Oxidising gases</u></b>	Void
<b><u>Gases under pressure</u></b>	Void
<b><u>Flammable liquids</u></b>	Void
<b><u>Flammable solids</u></b>	Void
<b><u>Self-reactive substances and mixtures</u></b>	Void
<b><u>Pyrophoric liquids</u></b>	Void
<b><u>Pyrophoric solids</u></b>	Void
<b><u>Self-heating substances and mixtures</u></b>	Void
<b><u>Substances and mixtures, which emit flammable gases in contact with water</u></b>	Void
<b><u>Oxidising liquids</u></b>	Void
<b><u>Oxidising solids</u></b>	Void
<b><u>Organic peroxides</u></b>	Void
<b><u>Corrosive to metals</u></b>	Void
<b><u>Desensitised explosives</u></b>	Void

**SECTION 10: Stability and reactivity**

<b><u>10.1 Reactivity</u></b>	No further relevant information available.
<b><u>10.2 Chemical stability</u></b>	Stable at normal handling and storage conditions
<b><u>Conditions to be avoided:</u></b>	no data available
<b><u>10.3 Possibility of hazardous reactions</u></b>	no data available
<b><u>10.4 Conditions to avoid</u></b>	no data available
<b><u>10.5 Incompatible materials:</u></b>	Iron Bases Oxidizing agents Acids Reducing agents
<b><u>10.6 Hazardous decomposition products:</u></b>	Formation of toxic gases is possible during heating or in case of fire : CO.

**SECTION 11: Toxicological information**

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

**Acute toxicity** Harmful if swallowed.

**LD/LC50 values relevant for classification:**

Oral	LD50	1,700 mg/kg (ATE)
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**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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<b><u>Carcinogenicity</u></b>	Based on available data, the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	Based on available data, the classification criteria are not met.
<b><u>STOT-single exposure</u></b>	Based on available data, the classification criteria are not met.
<b><u>STOT-repeated exposure</u></b>	Based on available data, the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	Based on available data, the classification criteria are not met.
<b><u>Additional toxicological information:</u></b>	
<b><u>Irritation and corrosivity</u></b>	no data available
<b><u>Sensitisation</u></b>	Sensitization possible through skin contact.
<b><u>Repeated dose toxicity</u></b>	no data available
<b><u>CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)</u></b>	Based on available data, classification criteria are not met.
<b><u>11.2 Information on other hazards</u></b>	no data available
<b><u>Endocrine disrupting properties</u></b>	Substance is not listed.

**SECTION 12: Ecological information**

<b><u>12.1 Toxicity</u></b>	no data available
<b><u>12.2 Persistence and degradability</u></b>	no data available
<b><u>12.3 Bioaccumulative potential</u></b>	Log POW = 2.60 (calculated by ACD/Labs)
<b><u>12.4 Mobility in soil</u></b>	no data available
<b><u>12.5 Results of PBT and vPvB assessment</u></b>	no data available
<b><u>12.6 Endocrine disrupting properties</u></b>	For information on endocrine disrupting properties see section 11.
<b><u>12.7 Other adverse effects</u></b>	no data available
<b><u>Remark:</u></b>	Very toxic for fish
<b><u>Additional ecological information:</u></b>	
<b><u>General notes:</u></b>	Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

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**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 or ID number**

**ADR, IMDG, IATA**

UN3077

**14.2 UN proper shipping name**

**ADR**

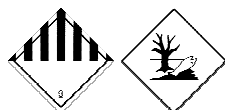
3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (propyl 3,4,5-  
trihydroxybenzoate)

**IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (propyl 3,4,5-  
trihydroxybenzoate)

**14.3 Transport hazard class(es)**

**ADR, IMDG, IATA**



**Class**

9 Miscellaneous dangerous substances and articles.

**Label**

9

**14.4 Packing group**

**ADR, IMDG, IATA**

III

**14.5 Environmental hazards:**

**Marine pollutant:**

not applicable

**Special marking (ADR):**

Symbol (fish and tree)

**Special marking (IATA):**

Symbol (fish and tree)

**14.6 Special precautions for user**

Symbol (fish and tree)

Warning: Miscellaneous dangerous substances and articles.

**EMS Number:**

F-A,S-F

**Stowage Category**

A

**Stowage Code**

SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

**14.7 Maritime transport in bulk according to**

**IMO instruments**

not applicable

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**ADR**

**Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**Transport category**

3

**Tunnel restriction code**

(-)

**IMDG**

**Limited quantities (LQ)**

5 kg

**Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

**UN "Model Regulation":**

UN 3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (PROPYL 3,4,5-  
TRIHYDROXYBENZOATE), 9, III

**SECTION 15: Regulatory information**

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

No further relevant information available.

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

Substance is not listed.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED**

**EXPLOSIVES PRECURSORS**

**(Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

**Annex II - REPORTABLE**

**EXPLOSIVES PRECURSORS**

Substance is not listed.

**Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

**Regulation (EC) No 111/2005**

**laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

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**National regulations:**

**Waterhazard class:**

Water hazard class 2 (Assessment by list): hazardous for water.

**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.

**Version number of previous version:**

7

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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