

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 16.12.2025  
Product: **PROPYLHEPTANOL**

Version: 6.1

(30161724/SDS\_GEN\_TH/EN)

Date of print: 27.05.2026

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**PROPYLHEPTANOL**

Use: Chemical

Manufacturer/supplier:

BASF (Thai) Limited  
23rd Floor, Emporium Tower, 622, Sukhumvit 24 Rd.,  
Klongton, Klongtoey, Bangkok 10110, THAILAND  
Telephone: +66 2624-1999  
Telefax number: +66 2664-9254  
E-mail address: Thailand-SDS-info@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

**Classification according to UN GHS 2009**

Classification of the substance and mixture:  
Eye irritation: Cat.2B  
Hazardous to the aquatic environment - acute: Cat.2  
Hazardous to the aquatic environment - chronic: Cat.3  
Skin irritation: Cat.2

Label elements and precautionary statement:

Pictogram:



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Signal Word:  
Warning

Hazard Statement:

H320 Causes eye irritation.  
H315 Causes skin irritation.  
H412 Harmful to aquatic life with long lasting effects.  
H401 Toxic to aquatic life.

Precautionary Statements (Prevention):

P280 Wear protective gloves.  
P273 Avoid release to the environment.  
P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P332 + P313 If skin irritation occurs: Get medical attention.  
P337 + P313 If eye irritation persists: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

2-propyl heptane-1-ol

CAS Number: 10042-59-8

#### Hazardous ingredients

2-propyl heptane-1-ol

Content (W/W): >= 91.3 % - <= 95.8 %  
CAS Number: 10042-59-8

Eye Irrit.: Cat. 2B  
Aquatic Acute: Cat. 2  
Aquatic Chronic: Cat. 3  
Skin Irrit.: Cat. 2

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pentan-1-ol

Content (W/W): > 0 % - < 0.2 %  
CAS Number: 71-41-0

Flam. Liq.: Cat. 3  
Acute Tox.: Cat. 5 (oral)  
Acute Tox.: Cat. 5 (dermal)  
Skin Irrit.: Cat. 2  
Eye Dam.: Cat. 1  
STOT SE: Cat. 3 (irr. to respiratory syst.)  
Aquatic Chronic: Cat. 2

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

Specific hazards:

The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

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Special protective equipment:  
Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:  
Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Further information:  
Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:  
Handle in accordance with good industrial hygiene and safety practice.

Environmental precautions:  
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For large amounts: Pump off product.  
For residues: Pick up with suitable absorbent material. Dispose of contaminated material as prescribed.

Additional information: High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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## 7. Handling and Storage

Handling  
Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:  
No special precautions necessary. Substance/product is non-flammable.

Storage  
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Avoid contact with skin. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
Odour threshold:	not determined	
pH value:	not applicable	
glass transition temperature:	-116.6 °C	(OECD Guideline 102)
Boiling point:	218.4 °C (1,013.25 hPa)	(other)
Flash point:	100 °C	(ISO 2719, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	hardly combustible	(derived from flash point)

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Lower explosion limit:	0.8 %(V) (1013 hPa) The lower explosion point may be 5 - 15 °C below the flash point.	(BASF method)
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	265 °C	(DIN 51794)
Self ignition:	Based on its structural properties the product is not classified as self- igniting.	Test type: Spontaneous self- ignition at room-temperature.
Self heating ability:	not applicable, the product is a liquid	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	
Vapour pressure:	0.021 hPa (25 °C)	(measured)
Density:	0.8323 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Relative density:	0.832 (20 °C)	
Relative vapour density (air):	5.45 (20 °C) Heavier than air.	(calculated)
Solubility in water:	82 mg/l (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	4.1 (20 °C)	
Adsorption/water - soil:	KOC: 562.3; log KOC: 2.75	(OECD Guideline 121)
Surface tension:	46.1 mN/m (20 °C; 0.074 g/l)	(OECD Guideline 115, OECD harmonized ring method)
Viscosity, dynamic:	15.3 mPa.s (20 °C)	(DIN 51562)
Viscosity, kinematic:	18.35 mm <sup>2</sup> /s (20 °C)	(DIN 51562)
Molar mass:	158.28 g/mol	

#### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

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## 10. Stability and Reactivity

### Conditions to avoid:

No special precautions other than good housekeeping of chemicals.

### Substances to avoid:

strong oxidizing agents

Corrosion to metals: Corrosive effects to metal are not anticipated.

### Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

### Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

### Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

### Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): 5,400 mg/kg (other)

#### Acute inhalation toxicity

LC0 rat (by inhalation):  $\geq 0.13$  mg/l 8 h (IRT)

Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. The vapour was tested.

#### Acute dermal toxicity

LD50 rabbit (dermal):  $> 5,010$  mg/kg (other)

#### Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

#### Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

#### Irritation

Assessment of irritating effects:  
Eye contact causes irritation. Skin contact causes irritation.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: Irritant. (other)

Serious eye damage/irritation rabbit: Irritant. (other)

### **Respiratory/Skin sensitization**

Assessment of sensitization:  
Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:  
guinea pig: Non-sensitizing. (other)  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Germ cell mutagenicity**

Assessment of mutagenicity:  
No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been tested. The statement has been derived from the structure of the product.

### **Carcinogenicity**

Assessment of carcinogenicity:  
No data available concerning carcinogenic effects.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
The results of animal studies gave no indication of a fertility impairing effect.

### **Developmental toxicity**

Assessment of teratogenicity:  
The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

### **Specific target organ toxicity (single exposure)**

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:  
Repeated exposure to high doses of the substance causes reversible liver changes in rodents. According to present knowledge, these effects do not occur in man.

## Aspiration hazard

not applicable

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

No data available.

Aquatic invertebrates:

EC50 (48 h) 1.33 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An eluate has been tested.

Aquatic plants:

EC50 (72 h) 5.01 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

Microorganisms/Effect on activated sludge:

EC20 (0.5 h) 300 mg/l, activated sludge (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

EC10 (35 d) 0.106 mg/l, *Danio rerio* (OECD Guideline 210, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 0.269 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Assessment of terrestrial toxicity:

Soil living organisms:

EC10 (28 d) 341 mg/kg, other soil dwelling microorganisms (OECD Guideline 216)

LC50 (14 d) 125 mg/kg, *Eisenia foetida* (OECD Guideline 207, artificial soil)

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

## Mobility

Assessment transport between environmental compartments:  
 The substance will slowly evaporate into the atmosphere from the water surface.  
 Adsorption to solid soil phase is possible.

## Persistence and degradability

Elimination information:  
 64 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge, domestic)

Assessment of stability in water:  
 According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):  
 According to structural properties, hydrolysis is not expected/probable.

## Bioaccumulation potential

Assessment bioaccumulation potential:  
 Significant accumulation in organisms is not to be expected.

Bioaccumulation potential:  
 Bioconcentration factor: 14 - 247, Fish (calculated)

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## 13. Disposal Considerations

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:  
 Disposal must be made according to official regulations.

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## 14. Transport Information

### Domestic transport:

UN number or ID number	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### Sea transport

#### IMDG

UN number or ID number:	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable

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Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Marine pollutant: no  
Special precautions for user: None known

### Air transport

IATA/ICAO

UN number or ID number: Not classified as a dangerous good under transport regulations  
Proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### Maritime transport in bulk according to IMO instruments

Regulation: IBC-Code  
Product name: Decyl alcohol (all isomers)  
Pollution category: Y  
Ship Type: 2

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

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