

# Safety data sheet

Page: 1/17

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

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

### 1.1. Product identifier

## PROPYLHEPTANOL

Chemical name: 2-propyl heptane-1-ol

CAS Number: 10042-59-8

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

Relevant identified uses: Chemical

### 1.3. Details of the supplier of the safety data sheet

Company:

«BASF T.O.V.» LLC

139, Velyka Vasylykivska str

Kyiv

UKRAINE

03150

Telephone: +38 044 591 55 95 (96)

E-mail address: basf.ukraine@basf.com

### 1.4. Emergency telephone number

Telephone: +49 180 22 73 112 (BASF-Hotline)

0 800 400 120 (valid only on the territory of Ukraine)

0 800 30 72 72 (valid only on the territory of Ukraine)

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. 2

H315 Causes skin irritation.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

| Eye Irrit. 2

H319 Causes serious eye irritation.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

| Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.

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 advice/attention.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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| Hazard determining component(s) for labelling: 1-pentanol

## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

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).

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

| 2-Propylheptan-1-ol

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

CAS Number: 10042-59-8  
EC-Number: 233-126-1

Aquatic Chronic 3  
Skin Irrit. 2  
Eye Irrit. 2  
H319, H315, H412

#### Regulatory relevant ingredients

##### 2-Propylheptan-1-ol

Content (W/W):  $\geq 91,3\%$  -  $\leq 95,8\%$   
CAS Number: 10042-59-8  
EC-Number: 233-126-1

Aquatic Chronic 3  
Skin Irrit. 2  
Eye Irrit. 2  
H319, H315, H412

##### 1-pentanol

Content (W/W):  $> 0\%$  -  $< 0,2\%$   
CAS Number: 71-41-0  
EC-Number: 200-752-1  
INDEX-Number: 603-200-00-1

Flam. Liq. 3  
Acute Tox. 4 (Inhalation - vapour)  
Skin Irrit. 2  
Eye Dam. 1  
STOT SE 3 (irr. to respiratory syst.)  
Aquatic Chronic 2  
H226, H318, H315, H332, H335, H411

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

### 3.2. Mixtures

Not applicable

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

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.

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

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(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

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

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

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

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

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

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.

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

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

#### **5.3. Advice for fire-fighters**

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.

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

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### **SECTION 6: Accidental Release Measures**

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.

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

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Pack in tightly closed containers for disposal.

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

Handle in accordance with good industrial hygiene and safety practice.

### **6.2. Environmental precautions**

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

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

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of contaminated material as prescribed.

### **6.4. Reference to other sections**

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## **SECTION 7: Handling and Storage**

### **7.1. Precautions for safe handling**

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

No special precautions necessary. Substance/product is non-flammable.

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

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

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## **SECTION 8: Exposure Controls/Personal Protection**

### **8.1. Control parameters**

Components with occupational exposure limits

| 71-41-0: 1-pentanol

MAC CEIL 10 mg/m<sup>3</sup> (UK MAC R), vapour

PNEC

| freshwater: 0,0106 mg/l

| marine water: 0,00106 mg/l

intermittent release: 0,0133 mg/l

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

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(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

---

| sediment (freshwater): 0,6342 mg/kg

| sediment (marine water): 0,06342 mg/kg

soil: 1,25 mg/kg

STP: 12 mg/l

#### DNEL

worker:

Long-term exposure- systemic effects, dermal: 2,1 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 7,41 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 0,75 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 1,3 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, oral: 0,75 mg/kg

## **8.2. Exposure controls**

### 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:

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

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.

#### Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

## SECTION 9: Physical and Chemical Properties

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

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
Odour threshold:	not determined	
glass transition temperature:	-116,6 °C	(OECD Guideline 102)
Boiling point:	218,4 °C (1.013,25 hPa)	(other)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	0,8 %(V) (1013 hPa)	(BASF method)
	The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	100 °C	(ISO 2719, closed cup)
Auto-ignition temperature:	265 °C	(DIN 51794)
Thermal decomposition:	100 J/g (DSC (DIN 51007))	
pH value:	not applicable	
Viscosity, kinematic:	18,35 mm <sup>2</sup> /s (20 °C)	(DIN 51562)
Viscosity, dynamic:	15,3 mPa.s (20 °C)	(DIN 51562)
Thixotropy:	not thixotropic	
Solubility in water:	82 mg/l (20 °C, pH 6,5 - 6,8)	(OECD Guideline 105)
Solubility (qualitative) solvent(s):	organic solvents soluble	

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

Partitioning coefficient n-octanol/water (log Kow): 4,1  
(20 °C)

Vapour pressure: 0,021 hPa (measured)  
(25 °C)

Relative density: 0,832  
(20 °C)

Density: 0,8323 g/cm<sup>3</sup> (OECD Guideline 109)  
(20 °C)

Relative vapour density (air): 5,45 (calculated)  
(20 °C)  
Heavier than air.

#### Particle characteristics

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

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

#### Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

#### Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

#### Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

#### Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: Forms no flammable gases in the presence of water.

#### Corrosion to metals

Corrosive effects to metal are not anticipated.

### Other safety characteristics

Adsorption/water - soil: KOC: 562,3; log KOC: 2,75 (OECD Guideline 121)

Surface tension: 46,1 mN/m (OECD Guideline 115, OECD harmonized ring method)  
(20 °C; 0,074 g/l)

Molar mass: 158,28 g/mol

SAPT-Temperature:

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

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(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

---

Evaporation rate: Study scientifically not justified.  
Value can be approximated from Henry's Law Constant or vapor pressure.

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

Corrosion to metals:	Corrosive effects to metal are not anticipated.
Formation of flammable gases:	Remarks: Forms no flammable gases in the presence of water.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### 10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### 10.5. Incompatible materials

Substances to avoid:  
strong oxidizing agents

### 10.6. Hazardous decomposition products

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

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## SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

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

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

---

Experimental/calculated data:

LD50 rat (oral): 5.400 mg/kg (other)

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.

LD50 rabbit (dermal):  $> 5.010$  mg/kg (other)

#### 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)

Assessment of STOT single:

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

---

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

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

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)

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

---

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:

Toxic effects have been observed in studies with soil living organisms.

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.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

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.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

Bioaccumulation potential:

Bioconcentration factor(BCF): 14 - 247, Fish (calculated)

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

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## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is possible.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

## 12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties.

## 12.7. Other adverse effects

No indications of other environmental hazards have been identified.

### Results of PMT and vPvM assessment

Substance is not included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having PMT/vPvM properties.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

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

Contaminated packaging:

Disposal must be made according to official regulations.

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## SECTION 14: Transport Information

### Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

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 BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

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Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**RID**

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

**Inland waterway transport****ADN**

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

**Transport in inland waterway vessel**

UN number or ID number: ID9003  
 UN proper shipping name: SUBSTANCES WITH FLASH-POINT BETWEEN 60°C - 100°C (2-PROPYLHEPTANE-1-OL)

Transport hazard class(es): 9, N2, F  
 Packing group: Not applicable  
 Environmental hazards: yes  
 Type of inland waterway vessel: N  
 Cargo tank design: 4  
 Cargo tank type: 3

**Sea transport****IMDG**

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

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

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(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

### **Air transport**

IATA/ICAO

UN number or ID number: Not applicable  
 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

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

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

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 17.02.2026

Version: 3.0

Date / Previous version: 27.01.2025

Previous version: 2.0

Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS\_GEN\_UA/EN)

Date of print 15.05.2026

## SECTION 15: Regulatory Information

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

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

### 15.2. Chemical Safety Assessment

| Chemical Safety Assessment performed

## SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

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

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
STOT SE	Specific target organ toxicity — single exposure
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

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concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PMT = Persistent, Mobile and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative. vPvM = very Persistent and very Mobile.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.