

Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS) Date / Revised: 02.01.2024 Version: 6.0 Product: **PROPYLHEPTANOL**

(ID no. 30161724/SDS_GEN_00/EN)

Date of print 09.05.2024

1. Identification

Product identifier

PROPYLHEPTANOL

Chemical name: 2-propyl heptane-1-ol CAS Number: 10042-59-8

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Chemical

Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY Operating Division Petrochemicals

Telephone: +49 621 60-42151 E-mail address: sds-petrochemicals@basf.com

Emergency telephone number

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

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit. 2

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Eye Dam./Irrit. 2B Aquatic Acute 2 Aquatic Chronic 3

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

Label elements

Globally Harmonized System (GHS)

Pictogram:



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 Statem	ents (Prevention):
P280	Wear protective gloves.
P273	Avoid release to the environment.
P264	Wash contaminated body parts thoroughly after handling.
Precautionary Statem	ents (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.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical attention.
P337 + P311	If eye irritation persists: Call a POISON CENTER or physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Precautionary Statem	ents (Disposal):
P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards

According to UN GHS criteria

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

Substances

Chemical nature

2-Propylheptan-1-ol CAS Number: 10042-59-8 EC-Number: 233-126-1

Hazardous ingredients (GHS) According to UN GHS criteria

2-Propylheptan-1-ol Content (W/W): >= 91,3 % - <= 95,8 % CAS Number: 10042-59-8 EC-Number: 233-126-1

Pentan-1-ol

 Content (W/W): >= 0 % - <= 0,2 %</th>
 Flam. Liq. 3

 CAS Number: 71-41-0
 Acute Tox. 5

 EC-Number: 200-752-1
 Acute Tox. 5

 INDEX-Number: 603-200-00-1
 Skin Corr./Ir

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

H226, H318, H315, H335, H303 + H313, H411

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

Skin Corr./Irrit. 2

Eye Dam./Irrit. 2B Aquatic Acute 2

Aquatic Chronic 3 H320, H315, H412, H401

Mixtures

Not applicable

4. First-Aid Measures

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:

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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.

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., (Further) symptoms and / or effects are not known so far

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

Indication of any immediate medical attention and special treatment needed Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

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.

Special hazards arising from the substance or mixture

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

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.

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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Pack in tightly closed containers for disposal.

Personal precautions, protective equipment and emergency procedures

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 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.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

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

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

71-41-0: Pentan-1-ol

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.

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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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
Odour threshold:	ainost odouness	
Odour threshold.	a et determe in e d	
	not determined	
pH value:		
	not applicable	
glass transition tempera		(OECD Guideline 102)
Boiling point:	218,4 °C	(other)
	(1.013,25 hPa)	
Flash point:	100 °C	(ISO 2719, closed cup)
Evaporation rate:		
·	Value can be approximated from	
	Henry's Law Constant or vapor	
	pressure.	
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:		
Lower explosion limit.	For liquids not relevant for	
	classification and labelling., The	
	lower explosion point may be 5 - 15	
	°C below the flash point.	
Upper explosion limit:		
	For liquids not relevant for	
	classification and labelling.	
Ignition temperature:	265 °C	(DIN 51794)
Vapour pressure:	0,021 hPa	(measured)
	(25 °C)	
Density:	0,8323 g/cm3	(OECD Guideline 109)
	(20 °C)	
Relative density:	0,832 [´]	
ý	(20 °C)	
Relative vapour density		(estimated)
	(20 °C)	(
	Heavier than air.	
Solubility in water:		(OECD Guideline 105)
Colubility in water.	82 mg/l	
	(20 °C, pH 6,5 - 6,8)	
	(20 0, pri 0,5 - 0,6)	

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Solubility (qualitative) solv	() U	
	soluble	
Partitioning coefficient n-c	octanol/water (log Kow): 4,1	
	(20 °C)	Tasti and Oscial and State
Self ignition:	Based on its structural properties the	Test type: Spontaneous self-
	product is not classified as self- igniting.	ignition at room-temperature.
	igniting.	
Thermal decomposition:	No decomposition if stored and handle	d as prescribed/indicated.
Viscosity, dynamic:	15,3 mPa.s	(DIN 51562)
	(20 °C)	
Viscosity, kinematic:	18,35 mm2/s	(DIN 51562)
	(20 °C)	
Explosion hazard:	Based on the chemical structure	
	there is no indication of explosive	
Fire promoting properties	properties.	
Fire promoting properties	Based on its structural properties the product is not classified as	
	oxidizing.	
	oxidizing.	
Other information		
Self heating ability:	not applicable, the product is a liquid	
Adsorption/water - soil:	KOC: 562 3: log KOC: 2 75	(OECD Guideline 121)

Adsorption/water - soil:	KOC: 562,3; log KOC: 2,75	(OECD Guideline 121)
Surface tension:	46,1 mN/m	(OECD Guideline 115, OECD
	(20 °C; 0,074 g/l)	harmonized ring method)
Grain size distribution:	The substance / product is marketed granular form.	l or used in a non solid or
Molar mass:	158,28 g/mol	

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:	No corrosive effect on metal.	
Formation of	Remarks:	Forms no flammable gases in the
flammable gases:		presence of water.

Chemical stability

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

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

No special precautions other than good housekeeping of chemicals.

Incompatible materials

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Substances to avoid: strong oxidizing agents

Hazardous decomposition products

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

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): 5.400 mg/kg (other)

LC0 rat (by inhalation): >= 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.

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Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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: Not relevant.

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

12. Ecological Information

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:

LC50 (96 h) 1,1 - 3,3 mg/l, Brachydanio rerio (OECD Guideline 203, static) The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous dispersion has been tested.

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.

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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: No data available.

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.

Persistence and degradability

Assessment biodegradation and elimination (H2O): Readily biodegradable (according to OECD criteria).

Elimination information:

64 % CO2 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.

Bioaccumulative potential

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

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

Mobility in soil

Assessment transport between environmental compartments:

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Volatility: The substance will slowly evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is possible.

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

Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

ADR

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	Not applicable
user	None known
RID	
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	Not applicable
user	None known

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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	None known
user:	

Transpo	rt in inland	d waterway	vessel

UN number or ID number: UN proper shipping name:	ID9003 SUBSTANCES WITH FLASH-POINT BETWEEN 60°C - 100°C (2- PROPYLHEPTANE-1-OL)
Transport hazard class(es): Packing group: Environmental hazards: Type of inland waterway vessel:	9, N2, F Not applicable yes N
Cargo tank design: Cargo tank type:	4 3

Sea transport

IMDG

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

Air transport

IATA/ICAO

	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	None known
user	

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Maritime transport in bulk according to IMO instruments

Regulation:

IBC-Code

Product name:Decyl alcohol (all isomers)Pollution category:YShip Type:2

15. Regulatory Information

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.

16. Other Information

	s, hazard symbols and hazard statements, if mentioned in section 2 or 3:
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
STOT SE	Specific target organ toxicity — single exposure
H320	Causes eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H303 + H313	May be harmful if swallowed or in contact with skin.
H411	Toxic to aquatic life with long lasting effects.

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.

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