



Trade name: Alcohol n-propylicus

Substance number: 152500

Version: 1 / CH

Date revised: 03.05.12

Replaces Version: - / CH

Date of printing: 03.05.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Alcohol n-propylicus

Item-No. 15250000

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of person responsible for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318

STOT SE 3 H336

Flam. Liq. 2 H225

Classification in accordance with EC directives

Classification F, R11

Xi, R41

R67

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Danger

Hazard statements

H336 May cause drowsiness or dizziness.

H318 Causes serious eye damage.

H225 Highly flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.

P271 Use only outdoors or in a well-ventilated area.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.



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P370+P378
P403+P233In case of fire: Use ... for extinction.
Store in a well-ventilated place. Keep container tightly closed.**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Highly flammable



Irritant

R phrases

11	Highly flammable.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

S phrases

16	Keep away from sources of ignition - No smoking.
7	Keep container tightly closed.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
39	Wear eye/face protection.
60	This material and its container must be disposed of as hazardous waste.

3. Composition/information on ingredients**Chemical characterization**

substances

Molecular weight

Value	60.09	g/mol
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Hazardous ingredients**Propan-1-ol**

CAS No.	71-23-8			
EINECS no.	200-746-9			
Concentration		>=	50	%
Classification	Xi, R41 F, R11 R67			

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1	H318
STOT SE 3	H336
Flam. Liq. 2	H225

4. First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.



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After skin contact

In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical aid immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Do NOT induce vomiting. Summon a doctor immediately.

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

Dizziness, Headache, Unconsciousness, CNS Disturbance

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

If swallowed, flush stomach adding activated charcoal.

5. Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

Non Suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet. Apply foam in large quantities because some of it will be destroyed by the product.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Keep away sources of ignition.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder).

6.4. Reference to other sections

Information regarding Safe handling, see chapter 7. Information regarding personal protective measures see, chapter 8. Information regarding Waste Disposal, see chapter 13.

7. Handling and storage



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7.1. Precautions for safe handling

Advice on safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains. Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

explosion proof. Provide solvent-resistant and impermeable floor. Keep in a cool place.

Further information on storage conditions

Keep container in a well-ventilated place. Protect from exposure to air/oxygen. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Propan-1-ol

List	SUVA			
Type	MAK			
Value	500	mg/m ³	200	ppm(V)
Skin resorption / sensibilisation: H; Status: 2005;				

8.2. Exposure controls

General protective and hygiene measures

Hold eye wash fountain available. At work do not eat, drink, smoke or take drugs. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with eyes.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Breathing apparatus in the event of vapours. combination filter A-P2

Hand protection

Protective gloves				
Appropriate Material	nitrile rubber - NBR			
Material thickness	0.35	mm		
Penetrating time	>=	8	h	
Appropriate Material	Butyl rubber - Butyl			
Material thickness	0.5	mm		
Penetrating time	>=	8	h	
Appropriate Material	Fluoro carbon rubber - FKM			
Material thickness	0.4	mm		
Penetrating time	>=	8	h	
Not suitable: gloves made of thick material				

Eye protection

Tightly fitting safety glasses

Body protection

Solvent-resistant protective clothing



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid		
Colour	colourless		
Odour	alcohol-like		
Odour threshold	Not determined		
Remarks	Not determined		
pH			
Value	7		
Concentration/H ₂ O	100	g/l	
Temperature	20	°C	
Melting point			
Value	-127.5	°C	
Boiling point			
Value	97	°C	
Flash point			
Value	22	to	26 °C
Flammability	Not applicable		
Explosion limits			
Lower explosion limit	2.1	% (V)	
Upper explosion limit	13.5	% (V)	
Vapour pressure			
Value	20	hPa	
Density			
Value	0.803	g/cm ³	
Solubility in water			
Value	1000	g/l	
Temperature	20	°C	
Octanol/water partition coefficient (log Pow)			
Remarks	Not determined		
Ignition temperature			
Value	371	°C	
Viscosity			
dynamic			
Value	2.3	mPa.s	
Temperature	20	°C	
kinematic			

9.2. Other information

Other information

Forms explosive mixture with air are possible.

10. Stability and reactivity

10.4. Conditions to avoid



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To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Violent reaction under influence of oxidising agents. Reactions with alkali metals. Reactions with earth alkali metals. Reactions with oxygen. Formation of explosive gas/air mixtures.

10.6. Hazardous decomposition products

Flammable gases/vapours

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50	>	2000	mg/kg

Acute dermal toxicity

Species	rabbit		
LD0	>	2000	mg/kg

Acute inhalational toxicity

Species	rat		
LC50	>	20	mg/l
Duration of exposure		4	h

Skin corrosion/irritation

Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.
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Serious eye damage/irritation

valuation	strongly irritant
Remarks	Danger acute eye damage.

Sensitization

Remarks	No sensitisation effect known.
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12. Ecological information**12.1. Toxicity****Fish toxicity**

Species	golden orfe (Leuciscus idus)		
LC50	>	100	mg/l
Duration of exposure		96	h

Daphnia toxicity

Species	Daphnia magna		
EC50	>	100	mg/l
Duration of exposure		48	h

Algae toxicity

EC50	>	100	mg/l
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12.2. Persistence and degradability**Biodegradability**

Value	75	%
Duration of test	20	d
valuation	Readily biodegradable	

Chemical oxygen demand (COD)



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Value 1.4 g O2/g

Biochemical oxygen demand (BOD5)

Value 1.43 to 1.6 g O2/g

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

Remarks Not determined

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

12.6. Other adverse effects**General information / ecology**

Innocuous to aquatic organisms. Product is slightly hazardous to water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Recovery or recycling, if possible. Otherwise: combustion in incineration plant.

EWC waste code No not dispose with rubbish.

EWC waste code Should not be released into the sanitary sewer system.

Disposal recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Unpurified packings can contain mixtures of gas and air which are capable of explosion.

14. Transport information**Land transport ADR/RID****14.1. UN number**

UN 1274

14.2. UN proper shipping name

n-PROPANOL (PROPYL ALCOHOL, NORMAL)

14.3. Transport hazard class(es)

Class 3

Label 3

14.4. Packing group

Packing group II

Marine transport IMDG/GGVSee**14.1. UN number**

UN 1274

14.2. UN proper shipping name

n-PROPANOL (PROPYL ALCOHOL, NORMAL)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group II

14.5. Environmental hazards

no

Air transport ICAO/IATA



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14.1. UN number

UN 1274

14.2. UN proper shipping name

n-PROPANOL (PROPYL ALCOHOL, NORMAL)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Packing group II

15. Regulatory information**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

16. Other information**R-phrases listed in chapter 3**

11	Highly flammable.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

Hazard statements listed in chapter 3

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.