

Trade name: Alcohol isopropylicus

Substance number: 155300

Version: 5 / CH

Date revised: 15.03.2019

Replaces Version: 4 / CH

Print date: 15.03.19

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

1.1. Product identifier

Alcohol isopropylicus

Item No. 15530000

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

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

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements ***

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains

Propan-2-ol

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

Value	60.1	g/mol
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Hazardous ingredients**Propan-2-ol**

CAS No. 67-63-0

EINECS no. 200-661-7

Registration no. 01-21194557558-25-XXXX

Concentration \geq 50 %

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

Flam. Liq. 2 H225

Eye Irrit. 2 H319

STOT SE 3 H336

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

Take affected person to fresh air. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Heat. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

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

Headache, Dizziness, Nausea, Intoxication, Narcosis

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

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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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

Carbon monoxide (CO); Can build mixtures of gas and air which are capable of explosion.

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. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers). Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Take up with absorbent material (eg sand, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle and open container with care. Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Provide good room ventilation even at ground level (vapours are heavier than air).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Vapours can form an explosive mixture with air. Take action to prevent static discharges. Use explosion-proof equipment/fittings and non-sparking tools. Risk of explosion if the liquid enters the drains.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

explosion proof. Provide solvent-resistant and impermeable floor. Do not use light metal drums.

Hints on storage assembly

Do not store with oxidizing agents. Do not store with acids.

Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

Further information on storage conditions

Keep container tightly closed. Keep container tightly closed, cool and dry. Product is hygroscopic.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Propan-2-ol

List	SUVA			
Type	MAK			
Value	500	mg/m ³	200	ppm(V)
Short term exposure limit	1000	mg/m ³	400	ppm(V)
Pregnancy group: S; Status: 2017; Remarks: B SSc; Auge & OAW, ZNS, LeberKT AN; INRS, NIOSH				

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Keep away from food-stuffs, beverages and feed-stocks. Do not inhale gases/vapours/aerosols. At work do not eat, drink, smoke or take drugs. Avoid contact with skin and eyes. Hold eye wash fountain available.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Gas filterA. At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Gloves (solvent-resistant)			
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Breakthrough time	>=	8	h
Gloves (solvent-resistant)			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	>=	8	h
Not suitable: gloves made of thick material			
Not suitable: leather gloves			
Not suitable: gloves of natural latex			
Not suitable: PVC gloves			

Eye protection

Safety glasses with side protection shield

Body protection

Solvent-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid		
Colour	colourless		
Odour	alcohol-like		
pH value			
Remarks	Not applicable		
Melting point			
Value	-89.5		°C
Method	DIN 51761		
Initial boiling point and boiling range			
Value	82		°C

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Flash point

Value	12	°C
Method	DIN 51755	

Upper/lower flammability or explosive limits

Lower explosion limit	2	%(V)
Upper explosion limit	12	%(V)

Vapour pressure

Value	48	hPa
Temperature	20	°C

Vapour density

Value	2	
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Density

Value	0.785	g/cm ³
Temperature	20	°C

Solubility in water

Remarks	Completely miscible
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Auto-ignition temperature

Value	425	°C
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Viscosity**dynamic**

Value	2.43	mPa.s
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9.2. Other information**Other information**

Forms explosive mixture with air are possible.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Flames. Sparks

10.5. Incompatible materials

Alkaline metals, Reactions with earth alkali metals. Reactions with strong acids. Reactions with oxidising agents. amines

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide

Other information

Formation of explosive gas/air mixtures.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects**Acute oral toxicity (Components)****Propan-2-ol**

Species	rat		
LD50		5840	mg/kg
Method	OECD 401		

Acute dermal toxicity (Components)**Propan-2-ol**

Species	rabbit		
LD50		13900	mg/kg
Method	OECD 402		

Acute inhalative toxicity (Components)**Propan-2-ol**

Species	rat		
LC50	>	25	mg/l
Duration of exposure		6	h
Administration/Form	Vapors		
Method	OECD 403		

Skin corrosion/irritation (Components)**Propan-2-ol**

evaluation	non-irritant		
Method	OECD 404		
Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.		

Serious eye damage/irritation (Components)**Propan-2-ol**

evaluation	irritant		
Method	OECD 405		

Sensitization (Components)**Propan-2-ol**

Route of exposure	dermal		
Species	guinea pig		
evaluation	non-sensitizing		
Method	OECD 406		

Reproduction toxicity (Components)**Propan-2-ol**

Route of exposure	oral		
Species	rat		
Dose		853	mg/kg
Duration of exposure		1	d
evaluation	No negative effects		
Method	OECD 415		

Carcinogenicity (Components)**Propan-2-ol**

Route of exposure	inhalative		
Species	mouse		
Dose	<=	5000	ppm(m)
Duration of exposure		5	d
evaluation	No negative effects		
Method	OECD 451		

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Specific Target Organ Toxicity (STOT) (Components)**Propan-2-ol**

Organs: Nervous system

Experience in practice

Inhalation causes narcotic effect/intoxication. Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation can cause damage to the respiratory tract or lungs.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Propan-2-ol**

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	9640		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity (Components)**Propan-2-ol**

Species	Daphnia magna		
LC50	9714		mg/l
Duration of exposure	24	h	
Method	OECD 202		

Algae toxicity (Components)**Propan-2-ol**

Species	Scenedesmus subspicatus		
EC50	> 100		mg/l
Duration of exposure	72	h	

Bacteria toxicity

Species	Pseudomonas putida		
EC10	5175		mg/l
Duration of exposure	18	h	

Bacteria toxicity (Components)**Propan-2-ol**

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

Value	95		%
Duration of test	21	d	
Remarks	The product is biodegradable.		

Biodegradability (Components)**Propan-2-ol**

Value	53		%
Duration of test evaluation	5	d	
	Readily biodegradable		

Chemical oxygen demand (COD)

Value	97		%(m)
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Biochemical oxygen demand (BOD5)

Value	60		%(m)
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12.3. Bioaccumulative potential

General information

Not applicable

12.4. Mobility in soil

Mobility in soil (Components)

Propan-2-ol

Mobile in soils

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential (Components)

Propan-2-ol

The Substance doesn't meets PBT/vPvB-criteria

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

In accordance with regulations for special waste, must be taken, to an authorised special waste incineration plant.

Disposal recommendations for packaging

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

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1219	1219	1219
14.2. UN proper shipping name	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL (ISOPROPYL ALCOHOL)	ISOPROPANOL
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

CLP categories listed in Chapter 3

Eye Irrit. 2 Eye irritation, Category 2
 Flam. Liq. 2 Flammable liquid, Category 2
 STOT SE 3 Specific target organ toxicity - single exposure, Category 3

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.