

Trade name: Alcohol isopropylicus

Substance number: 155400

Version: 6 / CH

Date revised: 16.08.2021

Replaces Version: 5 / CH

Print date: 16.08.21

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

1.1. Product identifier

Alcohol isopropylicus

Item No. 15540000

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 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

60.10

g/mol

Hazardous ingredients *****propan-2-ol**

CAS No.

67-63-0

EINECS no.

200-661-7

Registration no.

01-21194557558-25-XXXX

Concentration

>= 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 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.

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.

SECTION 8: Exposure controls/personal protection ***

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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; Remarks: B SSc; Auge & OAW, ZNS, LeberKT AN; INRS, NIOSH				

Derived No/Minimal Effect Levels (DNEL/DMEL)

propan-2-ol

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	888			mg/kg/d

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	500			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer use			
Duration of exposure	Long term			
Route of exposure	dermal			
Mode of action	Systemic effects			
Concentration	319			mg/kg/d

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	inhalative			
Mode of action	Systemic effects			
Concentration	89			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	oral			
Mode of action	Systemic effects			
Concentration	26			mg/kg

Predicted No Effect Concentration (PNEC)

propan-2-ol

Type of value	PNEC		
Type	Freshwater		
Concentration	140.9		mg/l

Type of value	PNEC		
Type	Saltwater		
Concentration	140.9		mg/l

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Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	2251		mg/l
Type of value	PNEC		
Type	Sediment		
Concentration	552		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	28		mg/kg

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

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus in the event of aerosol or mist formation. EN 141; Gas filter A. combination filter A-P2; At intensive and longer exposition use self-contained breathing apparatus.

Hand protection

Gloves (solvent-resistant)

Appropriate Material nitrile rubber - NBR
 Material thickness 0.35 mm
 Breakthrough time \geq 8 h

Hand protection must comply with EN 374.

Gloves (solvent-resistant)

Appropriate Material Butyl rubber - Butyl
 Material thickness 0.5 mm
 Breakthrough time \geq 8 h

Gloves (solvent-resistant)

Appropriate Material Fluoro carbon rubber - FKM
 Material thickness 0.4 mm
 Breakthrough time \geq 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

Tightly fitting safety glasses

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

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Remarks Not applicable

Melting pointValue - 89.5 °C
Method DIN 51761**Initial boiling point and boiling range**Value 82 °C
Method ASTM D 1078**Flash point**Value 12 °C
Method ASTM D 56**Upper/lower flammability or explosive limits**Lower explosion limit 2 %(V)
Upper explosion limit 13 %(V)**Vapour pressure**Value 43 hPa
Temperature 20 °C**Vapour density**

Value > 1

DensityValue 0.786 g/cm³
Temperature 20 °C
Remarks Relative Density according specification**Solubility in water**

Remarks Completely miscible

Partition coefficient: n-octanol/water

log Pow 0.05

Auto-ignition temperature

Value > 350 °C

Viscosity**dynamic**Value 2.5 mPa.s
Temperature 20 °C**kinematic**Value 2.66 mm²/s
Temperature 25 °C
Method ASTM D 7042**Oxidising properties**

evaluation None known

9.2. Other information**Other information**

Forms explosive mixture with air are possible.

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

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

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10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Heat. Flames. Sparks

10.5. Incompatible materials

Development of toxic gases/vapours. Reactions with alkali metals. Reactions with earth alkali metals. Reactions with acids and strong oxidising agents.

10.6. Hazardous decomposition products

Flammable gases/vapours, In the event of fire the following can be released: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information *****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

Mutagenicity (Components)

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propan-2-ol

Species Salmonella typhimurium
 Method OECD 471
 Remarks None

propan-2-ol

Species hamster
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 476

propan-2-ol

Species mouse
 evaluation No mutagenicity in the micronucleus test.
 Method OECD 474

propan-2-ol

Species rat
 Dose 400 mg/kg
 evaluation No experimental indications on genotoxicity in vivo found.
 Method OECD 414

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 416

propan-2-ol

Route of exposure oral
 Species rat
 Dose 500 mg/kg
 Method OECD 414

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

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

Organs: Nervous system

Aspiration hazard (Components)**propan-2-ol**

Harmful: may cause lung damage if swallowed.

Experience in practice

Inhalation causes narcotic effect/intoxication. Inhalation of vapours may lead to headache, drowsiness and dizziness. Possible risk of harm to the unborn child.

SECTION 12: Ecological information *****12.1. Toxicity**

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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 (Components)**propan-2-ol**

EC50	> 100		mg/l
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12.2. Persistence and degradability**Biodegradability (Components)****propan-2-ol**

Value	53		%
Duration of test evaluation	5	d	
Readily biodegradable			

12.3. Bioaccumulative potential**General information**

Not applicable

Partition coefficient: n-octanol/water

log Pow 0.05

Octanol/water partition coefficient (log Pow) (Components)**propan-2-ol**

log Pow 0.05

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.

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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

	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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

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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.