

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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

1.1. Product identifier

Alcohol isopropylicus 70%

Item No. 15528000

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

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

P305+P351+P338 comfortable for breathing.
 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
-------	------	-------

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

Further ingredients**water**

CAS No.	7732-18-5		
EINECS no.	231-791-2		
Concentration	>= 25	< 50	%
Advice: [4]			

Note

[4] Voluntary information

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

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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****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**

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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 *****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				

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, clear
Colour	colourless

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

Odour	characteristic		
pH value			
Remarks	Not applicable		
Melting point			
Value	-88		°C
Initial boiling point and boiling range			
Value	appr. 83		°C
Flash point			
Value	18		°C
Method	DIN 51755		
Upper/lower flammability or explosive limits			
Lower explosion limit	2		%(V)
Upper explosion limit	12		%(V)
Vapour pressure			
Value	60.2		hPa
Temperature	20	°C	
Vapour density			
Value	2		
Density			
Value	0.871	to	0.882
Remarks	Relative Density according specification		
Value	0.875	to	0.878 g/m ³
Solubility in water			
Remarks	Completely miscible		
Auto-ignition temperature			
Value	425		°C
Viscosity			
dynamic			
Value	2.43		mPa.s

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

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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**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)**propan-2-ol**

Species	Salmonella typhimurium
Method	OECD 471
Remarks	None

propan-2-ol

Species	hamster
---------	---------

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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. 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 (Pimephales promelas)
LC50 9640 mg/l
Duration of exposure 96 h
Method OECD 203

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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
------	-------	--	------

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)
-------	----	--	------

Biochemical oxygen demand (BOD5)

Value	60		%(m)
-------	----	--	------

12.3. Bioaccumulative potential**General information**

Not applicable

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 meet PBT/vPvB-criteria

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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

	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), Solution	ISOPROPANOL (ISOPROPYL ALCOHOL), Solution	ISOPROPANOL, Solution
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

Trade name: Alcohol isopropylicus 70%

Substance number: 155280

Version: 3 / CH

Date revised: 27.09.2022

Replaces Version: 2 / CH

Print date: 27.09.22

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.