

Trade name: Alcohol isopropylicus

Substance number: 155300

Version: 6 / CH

Date revised: 18.09.2024

Replaces Version: 5 / CH

Print date: 18.09.24

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

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

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

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 |

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.

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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

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

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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 | | | | |

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 |
|---------------|------|

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| | | |
|---------------|------------------------------|-------|
| Type | Freshwater | |
| Concentration | 140.9 | mg/l |
| Type of value | PNEC | |
| Type | Saltwater | |
| Concentration | 140.9 | mg/l |
| 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. At intensive and longer exposition use self-contained breathing apparatus. Gas filter A. combination filter A-P2; EN 141

Hand protection ***

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

| | | |
|---|----------------------------|----|
| 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 | | |
| Appropriate Material | nitrile rubber - NBR | |
| Material thickness | 0.35 | mm |
| Breakthrough time | >= 8 | h |

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield

Body protection

Solvent-resistant protective clothing

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties ***

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9.1. Information on basic physical and chemical properties

| | | | |
|---|--|----|--------------------|
| Physical state | liquid, clear | | |
| Colour | colourless | | |
| Odour | alcohol-like | | |
| Melting point | | | |
| Value | -89 | | °C |
| Boiling point or initial boiling point and boiling range | | | |
| Value | 82 | | °C |
| Method | ASTM D 1078 | | |
| Upper and lower explosive limits | | | |
| Lower explosion limit | 2 | | %(V) |
| Upper explosion limit | 13 | | %(V) |
| Flash point | | | |
| Value | 12 | | °C |
| Method | ASTM D 56 | | |
| Ignition temperature | | | |
| Value | > 350 | | °C |
| pH value | | | |
| Remarks | Not applicable | | |
| Viscosity | | | |
| dynamic | | | |
| Value | 2.5 | | mPa.s |
| Temperature | 20 | °C | |
| kinematic | | | |
| Value | 2.66 | | mm ² /s |
| Temperature | 25 | °C | |
| Method | ASTM D 7042 | | |
| Vapour pressure | | | |
| Value | 43 | | hPa |
| Temperature | 20 | °C | |
| Density and/or relative density | | | |
| Value | 0.786 | | g/cm ³ |
| Temperature | 20 | °C | |
| Remarks | Relative Density according specification | | |
| Relative vapour density | | | |
| Value | 2 | | |

9.2. Other information

Solubility in water
Remarks Completely miscible

Oxidising properties
evaluation Not oxidising

Other information
Forms explosive mixture with air are possible.

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

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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

Peroxides. Vapours can form an explosive mixture with air.

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**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****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**

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| | |
|-------------------|-----------------|
| 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 |
| 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.

11.2 Information on other hazards

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Endocrine disrupting properties with respect to humans

This substance does not have endocrine disrupting properties with respect to humans.

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 |
|------|-------|--|------|

12.2. Persistence and degradability**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)

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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**Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. 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

15.2. Chemical safety assessment

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

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.