

Isopropanol 99,5%

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

1.1. Product identifier

Trade name

Isopropanol 99,5%

CAS number

67-63-0

EC number

200-661-7

REACH registration number

01-2119457558-25

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Solvent

Not suitable for use in

No information on usage restrictions is available.

1.3. Details of the supplier of the safety data sheet

Supplier

Swed Handling AB

Street address

Box 21

60102 Norrköping

Sweden

Telephone

011248484

Email

hseq@swedhandling.com

Web site

swedhandling.com

1.4. Emergency telephone number

No data available

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

Eye irritation, hazard category 2

Flammable liquids, hazard category 2

Hazard statements

H225, H319, H336

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

P261 Avoid breathing vapours.

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

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

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to an authorised waste collection point.

P102 Keep out of reach of children.

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

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2.3. Other hazards

The substance/mixture does not contain components that are considered to have endocrine-disrupting properties according to REACH art. 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain any components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
propan-2-ol; isopropyl alcohol; isopropanol	67-63-0 200-661-7 01-2119457558-25 603-117-00-0	99.5 - 100%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 - narcosis	H225, H319, H336 - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Remove contaminated clothing and shoes.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious but breathing normally, place in recovery position and seek medical advice. Oxygen or artificial respiration if needed. If symptoms persist, call a physician.

Skin contact

Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

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Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of eye irritation consult an ophthalmologist.

Ingestion

Rinse mouth and drink a couple of glasses of water or milk. Never give anything by mouth to an unconscious person. Seek medical attention if a large amount is ingested.

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

See section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Make sure that medical personnel know the substances in question and that they take the necessary protective measures.

SECTION 5: Firefighting measures

5.1. Extinguishing media**Suitable extinguishing media**

foam, carbon dioxide, dry powder or water fog

Unsuitable extinguishing media

Water in hard jet, foam with environmentally hazardous substances.

5.2. Special hazards arising from the substance or mixture

The vapors are heavier than air and may spread along the ground. The fumes can form an explosive mixture with air and be ignited by, for example, static electricity.

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

In case of fire extinguisher, complete protective equipment and fresh air apparatus should be used. Avoid inhalation of flue gases. Evacuate the immediate area. Cool fire-exposed surfaces with water. Remove other combustible material. Extinguish only minor fires on your own. Avoid extinguishing water or drains. Take measures to dispose of extinguishing water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Ventilate the area.

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6.2. Environmental precautions

Prevent discharges to water and sewage. In the event of major spills in water, notify waterworks or treatment plants. In the event of spillage that entails a risk of environmental damage, notify the municipality's environmental protection administration and / or the county administrative board's environmental protection unit.

6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

Contact information in case of emergency (see section 1), Personal protective equipment (see section 8), Disposal (see section 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Take precautionary measures against static discharge. Remove all sources of ignition. Do not handle near hot surfaces or equipment that can generate flames or sparks. Never pour or pump with a free jet from high altitude due to the risk of static electricity forming. Provide adequate ventilation. Use explosion-proof ventilating equipment. The vapors are heavier than air and may spread along the ground. The fumes can form an explosive mixture with air and be ignited by, for example, static electricity.

General hygiene

Ensure that eyewash stations and safety showers are close to the workstation location. Do not exceed the specified exposure limit values.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container in a dry, well-ventilated place (not above normal room temperature). Store in a tank or storage suitable for flammable products. Containers and couplings must be earthed.

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

See section 7 of the safety data sheet.

Eye / face protection

If there is a risk of direct contact or splashes, tight-fitting safety glasses or visors should be used.

Hand protection

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Other skin protection

Protective clothing as needed.

Respiratory protection

Full face mask with gas filter A or respirator may be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

colourless

Odour

characteristic

Melting point / freezing point

-88.5 °C

Boiling point or initial boiling point and boiling range

82 °C

Flammability

No data available

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Lower and upper explosion limit

2 - 12 %

Flash point

12 °C

Auto-ignition temperature

398.89 °C

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

No data available

Solubility

No data available

Partition coefficient n-octanol/water

0.05

Method

log Pow: (25 °C)

Vapour pressure

4.4 kPa

Density and/or relative density

0.79 g/cm³

Relative vapour density

No data available

Explosive properties

Formation of explosive air mixture is possible.

Particle characteristics

Not applicable

9.2. Other information

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Take precautionary measures against static discharges. Keep away from heat, sparks and open flame.
- No smoking.

10.5. Incompatible materials

Oxidizing agent Aluminium May damage gaskets, painted and painted surfaces, protective and sealing grease coatings, natural rubber materials and certain synthetic materials.

10.6. Hazardous decomposition products

carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	LD50/oral/rat =	> 5000 mg/kg
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	LD50/dermal/rabbit =	> 5000 mg/kg
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	LC50/inhalation/6h/rat =	> 10000 ppm

Skin corrosion/irritation

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Product / Substance name CAS / EC no.	Result
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	Repeated exposure may cause skin dryness or cracking. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Serious eye damage/irritation

No known risks of allergy, but the drying effect of the product may possibly contribute to atopic eczema.

Product / Substance name CAS / EC no.	Result
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	May cause eye irritation.

Germ cell mutagenicity

No known risks.

Carcinogenicity

No known risks.

Reproductive toxicity

No known risks.

STOT-single exposure

Product / Substance name CAS / EC no.	Result
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	May cause drowsiness and dizziness.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components that are considered to have endocrine-disrupting properties according to REACH art. 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	LC50/96h/Fathead minnows =	> 100 mg/l	Pimephales promelas (fathead minnow)

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	EC50/48h/daphnia =	> 100 mg/l

12.2. Persistence and degradability

Persistence and degradability

Product / Substance name CAS / EC no.	Type of test	Result
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	84 % bryts ned på 28 dygn (OECD 301D)	-
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	Biochemical oxygen demand within 5 days (BOD5) =	0,3-0,6

12.3. Bioaccumulative potential

Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	<4

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12.4. Mobility in soil

Mobility

Product / Substance name CAS / EC no.	Mobility
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	Förväntas ej absorberas av marken.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The substance/mixture does not contain any components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

Product / Substance name CAS / EC no.	PBT / vPvB
propan-2-ol; isopropyl alcohol; isopropanol 67-63-0 / 200-661-7	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6. Endocrine disrupting properties

The substance/mixture does not contain components that are considered to have endocrine-disrupting properties according to REACH art. 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No data available

Other

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The product is classified as hazardous waste according to the waste regulation (2020:614). The waste code is determined in consultation with the regional waste receiver and consult local authorities when handling waste. Prevent emissions in the drain.

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Packaging

Packaging: The packaging can be reused after thorough and correct cleaning. Packages containing product residues and which are not drip-dry shall handled as hazardous waste and disposed of tightly closed. Avoid spreading spilled material, runoff, contact with soil, waterways, drainage and drains.

SECTION 14: Transport information

14.1. UN number

1219

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

33

ADN Class

3

ADN Class Code

F1

14.4. Packing group

ADR / RID / ADN: II

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14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Special precautions for user

Tunnel restriction code D/E

Transport category 2

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Other

Not applicable

SECTION 15: Regulatory information

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

EU regulations

Seveso Directive EU Regulation (EC) No. 1907/2006 (REACH) CLP - Regulation (EC) No 1272/2008

National regulations

No data available

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Changes to previous revision

Section 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Abbreviations

ATE = Estimated Acute Toxicity

CLP = Regulation (EC) 1272/2009 of the European Parliament and of the Council (CLP) on classification, labeling and packaging of substances and mixtures

DMEL = Derived Minimal Effect Level (Derived Minimal Effect Level)

DNEL = Derived No Effect Level (Derived No Effect Level)

EUH hazard statements = supplementary hazard statements according to CLP

PBT = Persistent, bioaccumulative and toxic

PNEC = Concentration that is unlikely to cause a negative effect

vPvB = Very persistent and very bioaccumulative

LD50 = Lethal dose for 50% of a test population (median lethal dose)

LC50 = Lethal concentration for 50% of a test population. ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

References to key literature and data sources

The supplier's safety data sheet.

Evaluation methods for classification

Classification of mixtures and the assessment method used according to Regulation (EC) No 1272/2008 [CLP]. The supplier's safety data sheet.

Phrase meaning

Flam. Liq. 2 - Flammable liquids, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Other

Additional information

The information in this safety data sheet is considered correct according to current knowledge and experience, but no assurance can be given that the information is complete. It is therefore in the user's own interest to clarify whether the information is sufficient for the purpose for which the product is to be used.