

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

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Publication: 04/01/2021

Revision: 14/08/2024

Version: 01



ALCOHOL ISOPROPYLICUS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Isopropyl alcohol Alcohol isopropylicus Isopropylalcohol Alcool Isopropylique Isopropylalkohol
N° CAS:	67-63-0
N° EC:	200-661-7

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Biocide – Desinfection.
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1.3 Details of the supplier of the safety data sheet

Company:	Magis-Pharma NV Neerlandweg 24 2610 Wilrijk Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Flammable liquid (category 2)	H225
Eye irritation (category 2)	H319
STOT SE (category 3)	H336

2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s):

Danger

Hazard statements:

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

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Precautionary statements:

P243	Take precautionary measures against static discharge.
P261	Avoid breathing fumes/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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
Additional applicable label elements:	Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Isopropyl alcohol
IUPAC name:	Propan-2-ol
Synonyms:	Isopropanol; 2-Propanol
N° CAS:	67-63-0
N° EC:	200-661-7
Molecular Formula:	C ₃ H ₈ O
Content:	100%

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:	Check the vital functions. Unconscious: maintain adequate airflow and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.
After inhalation:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
After skin contact:	Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
After eye contact:	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

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After ingestion: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Consult a doctor/medical service.
Ingestion of large quantities: immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Potential Adverse human health effects and symptoms: Non-toxic if swallowed (LD50 oral, rat >5000 mg/kg). Non-toxic in contact with skin (LD50 skin > 5000 mg/kg). Not irritant to skin. May cause drowsiness or dizziness. Practically non-toxic by inhalation (LC50 inh, rat > 20 mg/l/4h). Causes serious eye irritation.

Symptoms/effects after inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

Symptoms/effects after skin contact: Dry skin.

Symptoms/effects after eye contact: Irritation of the eye tissue.

Symptoms/effects after ingestion: AFTER ABSORPTION OF LARGE QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

Chronic symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Powder extinguisher. CO2 extinguisher. Alcohol-resistant foam. Water spray.

Unsuitable extinguishing media: Strong water jet.

5.2 Special hazards arising from the substance/mixture

Fire hazard: Highly flammable liquid and vapor. Gas/vapor flammable with air within explosion limits. May be ignited by sparks. Gas/vapor spreads at floor level: ignition hazard.

Explosion hazard: Gas/vapor explosive with air within explosion limits. May be ignited by sparks. Reactions with explosion hazards: see section 10.

5.3 Advice for firefighters

Surrounding fires: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.

Protection against fire: Heat/fire exposure: compressed air/oxygen apparatus.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment: Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

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Emergency procedures: Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Ventilate area.

6.2 Environmental precautions

Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapor with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

Methods for cleaning up: Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections

Not available.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Do not discharge the waste into the drain. Do not use compressed air for pumping over.

Personal protection:

Remove contaminated clothing immediately. Clean contaminated clothing. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Technical protective measures:

Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Handling:

Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Incompatible products: Oxidizing agent. Silver nitrate. Sodium hypochlorite. Incompatible materials: Direct sunlight. Heat sources.

Special rules on packaging: closing, with pressure relief valve. Dry. Clean. Secure fragile packaging in solid containers.

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Conditions for safe storage, including any incompatibilities:

Storage – away from:

Suitable packaging materials: stainless steel. Monel steel. Carbon steel. Copper. Nickel. Bronze. Glass. Teflon. Polyethylene. Polypropylene. Zinc.

Unsuitable packaging material: steel with rubber inner lining. Aluminium.

Storage area: Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. May be stored under nitrogen.

Heat sources. Ignition sources. Oxidizing agents. Strong acids. (Strong) bases. Amines. Halogens.

7.3 Specific end use(s)

Biocide – Desinfection.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Isopropyl alcohol: Short term limit value 1000 mg/m³ (400 ppm); Long term limit value 500 mg/m³ (200 ppm).

DNEL (long term - systemic - consumer): oral 26 mg/kg/day; dermal 319 mg/kg/day; inhalation 89 mg/m³. DNEL (long term - systemic - worker): dermal 888 mg/kg/day; inhalation 500 mg/m³.

PNEC fresh water/salt water/intermittent release: 140.9 mg/L; PNEC sediment in fresh water/marine sediments: 552 mg/kg; PNEC soil: 28 mg/kg; PNEC STP: 2551 mg/L.

8.2 Exposure controls

Appropriate engineering control

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Individual protection measures

Eye/face protection: Safety glasses.

Skin protection: Protective clothing.

Hand protection: Gloves DIN EN 374

Respiratory protection: Full face mask with filter type A at conc. in air > exposure limit.

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Colourless liquid.

Odour: Alcohol odour.

Odour threshold: 3 – 610 ppm; 8 – 1499 mg/m³.

pH: Not available.

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Melting/freezing point:	-89 °C.
Initial boiling point:	82 °C (1013 hPa).
Boiling range:	82 – 83 °C.
Flash point:	12 °C.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	2.0 – 12%.
Vapour pressure:	43 hPa (20 °C).
Vapour density:	1.05.
Relative density:	0.786 g/cm ³ .
Solubility:	Miscible with ethanol 96%.
Solubility in water:	Miscible with water.
Partition coefficient (n-octanol/water):	0.05
Auto-ignition temperature:	399 °C
Decomposition temperature:	Not available.
Viscosity:	2.5 mPa.s (20 °C)
Explosive properties:	Vapors can form explosive mixtures with air.
Oxidising properties:	Non oxidizing.

9.2 Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Direct sunlight. Heat. High temperature. Incompatible materials. Open flame. Sparks.

10.5 Incompatible materials

May react violently with alkalis. May react violently with acids.

10.6 Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory/skin sensitisation:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	May cause respiratory irritation.
STOT-repeated exposure:	Not classified.
Aspiration Hazard:	Not classified.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Irritation of the eye tissue.
Skin contact:	Dry skin. On continuous/repeated exposure/contact: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation.
Inhalation:	Exposure to high concentrations: coughing, dry/sore throat, central nervous system depression, dizziness, headache, narcosis.
Ingestion:	After absorption of large quantities: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. Following symptoms may appear later: Body temperature fall. Slowing respiration.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 fish 19640 –10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal).

12.2 Persistence and degradability

Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.

12.3 Bioaccumulative potential

Low potential for bioaccumulation (Log Kow < 4).

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

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12.6 Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : UN1219

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR: 1219 ISOPROPYL ALCOHOL (ISOPROPANOL)
IMDG: ISOPROPANOL (ISOPROPYL ALCOHOL)
IATA: Isopropanol

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Class 3 flammable liquids, label 3.

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : II

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : Not classified.

14.6 Special precautions for user

Not available.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

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SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases:

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapors may cause drowsiness and dizziness.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S7 Keep container tightly closed.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

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16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

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