



SAFETY DATA SHEET

Isopropyl Alcohol

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR).

1. Identification

Product identifier

Product name	Isopropyl Alcohol
Chemical name	PROPAN-2-OL
Product number	MCC-BACFG, MCC-BACPP, MCC-4725
Synonyms; Common Names	Isopropyl Alcohol, Isopropanol
CAS number	67-63-0

Recommended use and restrictions on use

Recommended use	Cleaning agent.
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Details of the supplier of the safety data sheet

Supplier	MICROCARE LLC
Manufacturer	MICROCARE LLC 595 John Downey Drive New Britain, CT 06051 United States of America CAGE: OATV9 Tel: +1 800-638-0125, +1 860-827-0626 techsupport@microcare.com

Emergency telephone number

Emergency telephone	INFOTRAC 1-800-535-5053 (CANADA and U.S.A.) 1-352-323-3500 (from anywhere in the world)
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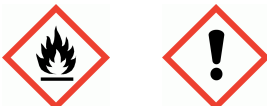
2. Hazard identification

Classification of the substance or mixture

WHMIS Regulatory Status	This product has been classified according to the hazard criteria of the Hazardous Product Regulations and the SDS contains all required information.
Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H335
Environmental hazards	Not Classified

Label elements

Hazard pictograms



Signal word	Danger
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Isopropyl Alcohol

Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/ attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	Safety data sheet available on request. For use in industrial installations only.

3. Composition/information on ingredients

Substances

Product name	Isopropyl Alcohol
Chemical name	PROPAN-2-OL
CAS number	67-63-0

Mixtures

Composition

4. First-aid measures

Description of first aid measures

Inhalation	IF INHALED: When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	IF SWALLOWED: Get medical attention immediately. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water.
Skin contact	IF ON SKIN (or hair): Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Take off immediately all contaminated clothing and wash it before reuse. Get medical attention if any discomfort continues.
Eye contact	IF IN EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

Indication of any immediate medical attention and special treatment needed

Specific treatments	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Isopropyl Alcohol

Suitable extinguishing media Extinguish with carbon dioxide or dry powder. Alcohol-resistant foam.

Specific hazards arising from the hazardous product

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Wear fire/flame resistant/retardant clothing. Face mask, protective gloves and safety helmet.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

7. Handling and storage

Precautions for safe handling

Usage precautions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour/spray. Use only outdoors or in a well-ventilated area. Wash skin thoroughly after handling. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³

Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Alcoholic.
Odour threshold	No information available.
pH	No information available.
Melting point	- 89.0°C/- 128.2°F
Initial boiling point and range	80 - 100°C/176 - 212°F

Isopropyl Alcohol

Flash point	12°C/53.6°F Method: Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	4.4 kPa @ not specified°C
Vapour density	2.07
Relative density	0.786
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	: 0.05
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	2.6 mm ² /s @ not specified°C
Explosive properties	No information available.
Refractive index	No information available.
Particle size	Not available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.

10. Stability and reactivity

Stability	Stable at normal ambient temperatures.
Conditions to avoid	Oxidizing agents. Avoid heat, flames and other sources of ignition.
Materials to avoid	Strong oxidizing agents. Aldehydes. Amines.

11. Toxicological information

Information on toxicological effects

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

NTP carcinogenicity Not listed.

12. Ecological information

Acute aquatic toxicity

Isopropyl Alcohol

Acute toxicity - fish	LC ₅₀ , 96 hours: 9,640 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 5102 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: >2,000 mg/l, Algae
<u>Bioaccumulative potential</u>	
Partition coefficient	: 0.05

13. Disposal considerations

Waste treatment methods

General information	Reuse or recycle products wherever possible.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN number

UN No. (TDG)	1219
UN No. (IMDG)	1219
UN No. (ICAO)	1219
UN No. (DOT)	1219

UN proper shipping name

Proper shipping name (TDG)	UN1219, ISOPROPYL ALCOHOL, 3, PGII
Proper shipping name (IMDG)	UN1219, ISOPROPYL ALCOHOL, 3, PGII
Proper shipping name (ICAO)	UN1219, ISOPROPYL ALCOHOL, 3, PGII
Proper shipping name (DOT)	UN1219, ISOPROPYL ALCOHOL, 3, PGII

Transport hazard class(es)

TDG class	3
IMDG class	3
ICAO class/division	3

Packing group

TDG packing group	II
IMDG packing group	II
ICAO packing group	II
DOT packing group	II

Special precautions for user

EmS	F-E, S-D
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15. Regulatory information

Inventories

Isopropyl Alcohol

EU - EINECS/ELINCS

EINECS

Canada – DSL/NDSL

DSL

US - TSCA

Present.

US – TSCA 12(b) Export Notification

No.

Australia - AIC

Yes

Japan - ENCS

Yes

Korea - KECI

Yes

China - IECSC

Yes

Phillippines – PICCS

Yes

16. Other information

Revision date	2022-07-13
Revision	32
Supersedes date	2021-01-18
SDS number	BULK - IPA
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.