

SAFETY DATA SHEET

Isopropyl Alcohol

According to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013, as amended.

SECTION 1: identification of the hazardous chemical and of the supplier

Product identifier

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

Recommended use of the substance or mixture and restrictions on use

Identified uses	Cleaning agent.
-----------------	-----------------

Details of the supplier of the safety data sheet

Supplier	MICROCARE ASIA PTE LTD 102E, Pasir Panjang Road, Citilink, #05-06, Singapore 118529 Phone (65)6271.0182 techsupport@microcare.sg
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 +65 3163 5349 (SINGAPORE) 1-352-323-3500 (from anywhere in the world)
---------------------	---

SECTION 2: Hazard identification

Classification of the substance or mixture

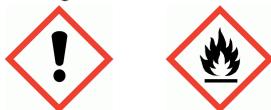
Classification

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards	Not Classified

Label elements

Isopropyl Alcohol

Pictogram



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/ sparks/ open flames /hot surfaces – No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

Supplementary precautionary statements

P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a wellventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Other hazards

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substances

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

Mixtures

Composition

SECTION 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.

Isopropyl Alcohol

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.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Specific treatments Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

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 fire-fighters

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.

SECTION 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.

Reference to other sections

SECTION 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.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

SECTION 8: Exposure controls and personal protection

Control parameters

Exposure controls

Isopropyl Alcohol

SECTION 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
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.

SECTION 10: Stability and reactivity

Stability	Stable at normal ambient temperatures.
Conditions to avoid	Oxidising agents. Avoid heat, flames and other sources of ignition.

Isopropyl Alcohol

Materials to avoid Strong oxidising agents. Aldehydes. Amines.

SECTION 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.

SECTION 12: Ecological Information

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 9,640 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2,000 mg/l, Algae

Persistence and degradability

Bioaccumulative potential

Partition coefficient : 0.05

Mobility in soil

Other adverse effects

SECTION 13: Disposal information

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.

SECTION 14: Transportation information

UN number

UN No. (Road/Rail) 1219

UN No. (IMDG) 1219

UN No. (ICAO) 1219

UN proper shipping name

Proper shipping name (Road/Rail) UN1219, ISOPROPYL ALCOHOL, 3, PGII

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

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

Transport hazard class(es)

Road/Rail class 3

IMDG class 3

ICAO class/division 3

Packing group

Isopropyl Alcohol

Road/Rail packing group II

IMDG packing group II

ICAO packing group II

Environmental hazards

Special precautions for user

EmS F-E, S-D

SECTION 15: Regulatory information

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

Inventories

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

Philippines - PICCS

Yes

SECTION 16: Other information

Revision date 13/7/2022

Revision 32

Supersedes date 18/1/2021

SDS number BULK - IPA

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.