SAFETY DATA SHEET
Isopropyl Alcohol

1. Identification

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 chemical and restrictions on use
Application Cleaning agent.

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 (U.S.A. and CANADA)
1-352-323-3500 (from anywhere in the world)

2. Hazard(s) identification

Classification of the substance or mixture
OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.
Physical hazards Flam. Liq. 2 - H225
Health hazards Eye Irrit. 2A - H319 STOT SE 3 - H336
Environmental hazards Not Classified

Label elements
Hazard symbols

Signal word Danger
Isopropyl Alcohol

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

Precautionary statements
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/ 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 center/ 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.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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 immediate medical attention and special treatment needed
Specific treatments Treat symptomatically.

5. Fire-fighting measures

Extinguishing media
Isopropyl Alcohol

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. Vapors 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): OSHA 400 ppm 980 mg/m³
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
OSHA = Occupational Safety and Health Administration.
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.
Color
Colorless.
Odor
Alcoholic.
Isopropyl Alcohol

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor threshold</td>
<td>No information available.</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point</td>
<td>-89.0°C/-128.2°F</td>
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<tr>
<td>Initial boiling point and range</td>
<td>80 - 100°C/176 - 212°F</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C/53.6°F Method: Closed cup.</td>
</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available.</td>
</tr>
<tr>
<td>Other flammability</td>
<td>No information available.</td>
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<tr>
<td>Vapor pressure</td>
<td>4.4 kPa @ not specified°C</td>
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<tr>
<td>Vapor density</td>
<td>2.07</td>
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<tr>
<td>Relative density</td>
<td>0.786</td>
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<tr>
<td>Bulk density</td>
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<tr>
<td>Solubility(ies)</td>
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<tr>
<td>Partition coefficient</td>
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<td>Auto-ignition temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Viscosity</td>
<td>2.6 mm²/s @ not specified°C</td>
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<td>Explosive properties</td>
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<td>Refractive index</td>
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<tr>
<td>Particle size</td>
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<td>Molecular weight</td>
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<td>Volatility</td>
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<td>Saturation concentration</td>
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<tr>
<td>Critical temperature</td>
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10. Stability and reactivity

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Oxidizing agents. Avoid heat, flames and other sources of ignition.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>Strong oxidizing agents. Aldehydes. Amines.</td>
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11. Toxicological information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Information on toxicological effects</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td></td>
</tr>
</tbody>
</table>
Isopropyl Alcohol

Acute toxicity inhalation (LC₅₀ vapours mg/l)  16,000.0
ATE inhalation (vapours mg/l)  16,000.0

Carcinogenicity
IARC carcinogenicity  IARC Group 3  Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity  Not listed.
OSHA Carcinogenicity  Not listed.

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

Bioaccumulative potential
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
Isopropyl Alcohol

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

Environmental hazards
Environmentally Hazardous Substance
No.

Special precautions for user
EmS  F-E, S-D

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
Not listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
Not listed.

SARA 313 Emission Reporting
No.

CAA Accidental Release Prevention
Not listed.

OSHA  Highly Hazardous Chemicals
Not listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
Not listed.

California Air Toxics "Hot Spots" (A-I)
Present.

California Air Toxics "Hot Spots" (A-II)
Not listed.

California Directors List of Hazardous Substances
Present.

Massachusetts "Right To Know" List
Present.

Rhode Island "Right To Know" List
Present.

Minnesota "Right To Know" List
Present.
Isopropyl Alcohol

New Jersey "Right To Know" List
Present.

Pennsylvania "Right To Know" List
Present.

Inventories
EU - EINECS/ELINCS
EINECS

Canada - DSL/NDSL
DSL

US - TSCA
Present.

US - TSCA 12(b) Export Notification
No.

Australia - AIIC
Yes

Japan - ENCS
Yes

Korea - KECI
Yes

China - IECSC
Yes

Philippines - PICCS
Yes

16. Other Information

<table>
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<tr>
<th>Revision date</th>
<th>7/13/2022</th>
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<tr>
<td>Revision</td>
<td>32</td>
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<tr>
<td>Supersedes date</td>
<td>1/18/2021</td>
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<tr>
<td>SDS No.</td>
<td>BULK - IPA</td>
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<td>SDS status</td>
<td>Approved.</td>
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<tr>
<td>Hazard statements in full</td>
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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.