SAFETY DATA SHEET  
Isopropyl Alcohol Cleaner  

1. Identification

Product identifier

Product name: Isopropyl Alcohol Cleaner
Product number: 71006435, 71006436, ZP

Recommended use of the chemical and restrictions on use

Application: Cleaning agent.
Uses advised against: No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier: Allied Electronics, Inc.
Allied Electronics, Inc.
7151 Jack Newell Blvd. S.
Fort Worth, Texas 76118
U.S.A.
www.alliedelec.com
Tel: +1 (866) 433-5722

Emergency telephone number

Emergency telephone: +1 202 464 2554 (USA only)
+44 1235 239670

2. Hazard(s) identification

Classification of the substance or mixture

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

Label elements

Pictogram

Signal word: Danger

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

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.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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.
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.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.
P102 Keep out of reach of children.

Contains

Propan-2-ol

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-63-0</td>
<td></td>
</tr>
</tbody>
</table>

Classification

Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information

Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Isopropyl Alcohol Cleaner

Ingestion
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention.

Skin Contact
Rinse with water.

Eye contact
Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion
No specific symptoms known.

Skin contact
No specific symptoms known.

Eye contact
Irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters
Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
**Isopropyl Alcohol Cleaner**

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of dust and vapors. Use suitable respiratory protection if ventilation is inadequate.

**Environmental precautions**
Avoid discharge into drains or watercourses or onto the ground.

**Methods and material for containment and cleaning up**
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to other sections**
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

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### 7. Handling and storage

#### Precautions for safe handling
**Usage precautions**
Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene**
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**
**Storage precautions**
Store locked up. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class**
Flammable liquid storage.

**Specific end use(s)**
The identified uses for this product are detailed in Section 1.
Isopropyl Alcohol Cleaner

**Occupational exposure limits**

**Propan-2-ol**

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.

**Propan-2-ol (CAS: 67-63-0)**

| Immediate danger to life and health | 2000 ppm |

**Exposure controls**

**Protective equipment**

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

No specific hand protection recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

Respiratory protection

No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls

Keep container tightly sealed when not in use. Avoid release to the environment.

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
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<td>Odor threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C CC (Closed cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Isopropyl Alcohol Cleaner

Evaporation factor: Not available.
Flammability (solid, gas): Not available.
Upper/lower flammability or explosive limits: Not available.
Other flammability: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 0.7855 @ 20°C
Bulk density: Not available.
Solubility(ies): Not available.
Partition coefficient: Not available.
Auto-Ignition temperature: Not available.
Decomposition Temperature: Not available.
Viscosity: Not available.
Explosive properties: Not considered to be explosive.
Oxidizing properties: Does not meet the criteria for classification as oxidizing.

10. Stability and reactivity

Reactivity: There are no known reactivity hazards associated with this product.
Stability: Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions: The following materials may react strongly with the product: Oxidizing agents.
Conditions to avoid: Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.
Materials to avoid: Oxidizing materials. Acids - oxidizing.
Hazardous decomposition products: Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral
Notes (oral LD₅₀): Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀): Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (Inhalation LC₅₀): Based on available data the classification criteria are not met.
Isopropyl Alcohol Cleaner

Skin corrosion/irritation
Animal data  Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation  Causes serious eye irritation.

Respiratory sensitization
Respiratory sensitization  Based on available data the classification criteria are not met.

Skin sensitization
Skin sensitization  Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro  Based on available data the classification criteria are not met.

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

IARC carcinogenicity
Contains a substance which may be potentially carcinogenic. IARC Group 3  Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity
Reproductive toxicity - fertility  Based on available data the classification criteria are not met.

Reproductive toxicity - development  Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure  STOT SE 3 - H336 May cause drowsiness or dizziness.
Target organs  Central nervous system

Specific target organ toxicity - repeated exposure
STOT - repeated exposure  Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard  Based on available data the classification criteria are not met.

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion
No specific symptoms known.

Skin Contact
No specific symptoms known.

Eye contact
Irritating to eyes.

Route of entry
Ingestion Inhalation Skin and/or eye contact

Target Organs
Central nervous system

Propan-2-ol

Acute toxicity - dermal
Notes (dermal LD₅₀)  LD₅₀ 5840 mg/kg. Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
Isopropyl Alcohol Cleaner

Skin corrosion/irritation
Animal data
Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation
Dose: 0.1 mL, 1 second, Rabbit Causes serious eye irritation.

Skin sensitization

Skin sensitization
Buehler test - Guinea pig: Not sensitizing. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity
Genotoxicity - in vitro
Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo
Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity
NOAEL 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

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

Specific target organ toxicity - single exposure
STOT - single exposure
STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs
Central nervous system

Specific target organ toxicity - repeated exposure
STOT - repeated exposure
NOAEC 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

12. Ecological Information

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

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

Propan-2-ol

Toxicity
Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

Acute toxicity - fish
LC₅₀, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
LC₅₀, 24 hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 7 days: 1800 mg/l, Scenedesmus quadricauda

Persistence and degradability
The degradability of the product is not known.
Isopropyl Alcohol Cleaner

Propan-2-ol

**Persistence and degradability**

The substance is readily biodegradable.

**Biodegradation**

Water - Degradation 53%: 5 days

**Biological oxygen demand**

1.19-1.72 g O₂/g substance

**Chemical oxygen demand**

2.23 g O₂/g substance

**Bioaccumulative potential**

**Bio-Accumulative Potential**

No data available on bioaccumulation.

**Partition coefficient**

Not available.

Propan-2-ol

**Bio-Accumulative Potential**

Bioaccumulation is unlikely.

**Mobility in soil**

**Mobility**

No data available.

Propan-2-ol

**Mobility**

The product is soluble in water.

**Other adverse effects**

None known.

### 13. Disposal considerations

**Waste treatment methods**

**General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**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)** ID8000

**UN proper shipping name**

**Proper shipping name (TDG)** ISOPROPANOL (ISOPROPYL ALCOHOL)

**Proper shipping name (IMDG)** ISOPROPANOL (ISOPROPYL ALCOHOL)
Isopropyl Alcohol Cleaner

Proper shipping name (ICAO)  ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (DOT)  CONSUMER COMMODITY

Transport hazard class(es)
DOT hazard class  9
DOT hazard label  9
TDG class  3
TDG label(s)  3
IMDG Class  3
ICAO class/division  3

Transport labels

DOT transport labels

Packing group
TDG Packing Group  II
IMDG packing group  II
ICAO packing group  II

Environmental hazards
Environmentally Hazardous Substance
No.

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

Transport in bulk according to  Not applicable.
Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.
Isopropyl Alcohol Cleaner

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
All the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
All the ingredients are listed or exempt.

Massachusetts "Right To Know" List
All the ingredients are listed or exempt.

Rhode Island "Right To Know" List
All the ingredients are listed or exempt.

Minnesota "Right To Know" List
All the ingredients are listed or exempt.

New Jersey "Right To Know" List
All the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
All the ingredients are listed or exempt.

Inventories

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

16. Other information

Training advice
Read and follow manufacturer's recommendations.
Isopropyl Alcohol Cleaner

<table>
<thead>
<tr>
<th>Issued by</th>
<th>Toni Ashford</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>6/28/2016</td>
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<tr>
<td>Revision</td>
<td>0</td>
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<tr>
<td>SDS No.</td>
<td>1373</td>
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</table>
| Hazard statements in full | H225 Highly flammable liquid and vapor.  
                           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.