

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Isopropyl Alcohol 50% Technical Grade
Synonyms: propan-2-ol, Isopropyl Alcohol
CAS Number: 67-63-0
Grade/Purity: Technical
Product Type: Alcohols
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Danger

GHS Pictograms:



Hazard Statements:

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

Precautionary Statements:

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| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating, and lighting equipment. |
| P242 | Use non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust, fume, gas, mist, vapours or spray. |
| P264 | Wash hands and face thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves, protective clothing, and eye/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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 or doctor if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice or attention. |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT | WEIGHT % | CAS # | EINECS# / ELINCS# | FORMULA | MOLECULAR WEIGHT |
|-------------------|----------|-----------|-------------------|---------------------------------|------------------|
| Isopropyl Alcohol | 50% | 67-63-0 | 200-661-7 | C ₃ H ₈ O | 60.10 g/mol |
| Water | 50% | 7732-18-5 | 231-791-2 | H ₂ O | 18.02 g/mol |

4. FIRST-AID MEASURES

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| Eyes | EYES: First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritation) develop. |
| Skin | SKIN: IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If symptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment. |
| Inhalation | INHALATION: IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used; if not available, use a level of protection greater than or equal to that advised under Protective Clothing. |
| Ingestion | INGESTION: DO NOT INDUCE VOMITING. Volatile chemicals have a high risk of being aspirated into the victim's lungs during vomiting which increases the medical problems. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. IMMEDIATELY transport the victim to a hospital. If the victim is convulsing or unconscious, do not give anything by mouth, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body. DO NOT INDUCE VOMITING. IMMEDIATELY transport the victim to a hospital. (NTP, 1992) |

5. FIRE-FIGHTING MEASURES

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| Suitable Media | Alcohol-resistant foam, CO ₂ , dry chemical powder. Water spray may be used to cool fire-exposed containers. |
| Unsuitable Media | Do not use a solid water stream — may scatter and spread fire. |
| Protective Equipment | Wear self-contained breathing apparatus and full protective clothing. |
| Combustion Products | May include carbon oxides and other toxic fumes. See Section 10. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions | Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental | Prevent leakage or spillage from entering drains, sewers, or waterways. |
| Containment & Cleanup | Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations. |

7. HANDLING AND STORAGE

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| Safe Handling | Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use. |
| Safe Storage | Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from incompatible materials (see Section 10). Keep containers tightly closed. Ground and bond containers when transferring material. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

| AGENCY | EXPOSURE LIMIT |
|-----------|----------------------------|
| OSHA PEL | 400 ppm TWA |
| NIOSH REL | 400 ppm TWA / 500 ppm STEL |
| IDLH | 2000 ppm |

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| Eyes | Wear chemical safety goggles or face shield. |
| Skin | Wear chemical-resistant gloves and protective clothing. |
| Inhalation | Use a NIOSH-approved respirator with organic vapor cartridges. For confined spaces or exposures above the OEL, use supplied-air respiratory protection. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Clear, colorless liquid with mild alcohol odor |
| Odor | Characteristic |
| pH | Not Available |
| Melting Point | -89°C |
| Boiling Point | 82°C |
| Flash Point | 12°C (pure) |
| Vapor Pressure | Not Available |
| Specific Gravity | 0.91 |
| Solubility | Fully miscible with water |
| Molecular Formula | C ₃ H ₈ O |
| Molecular Weight | 60.10 g/mol |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under recommended storage conditions. |
| Hazardous Reactions | None under normal processing conditions. |
| Conditions to Avoid | Heat, sparks, open flame, and incompatible materials. |
| Incompatible Materials | Strong oxidizing agents, sources of ignition, heat. |
| Decomposition Products | May produce carbon oxides and other toxic fumes when heated to decomposition. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

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| IARC | Not listed as carcinogen. |
| NTP | Not listed as carcinogen. |
| OSHA | Not listed as carcinogen. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Data not available. Avoid release to the environment. |
| Persistence | Not Available |
| Bioaccumulation | Not Available |
| Mobility in Soil | Not Available |

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

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| US DOT | UN1219, Isopropanol, 3, PG II |
| IMDG | UN1219, Isopropanol, 3, PG II |
| IATA/ICAO | UN1219, Isopropanol, 3, PG II |
| Marine Pollutant | No |

15. REGULATORY INFORMATION

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| TSCA Inventory | All ingredients are listed on the TSCA Active inventory. |
| California Prop 65 | Refer to California Proposition 65 list for current status. |
| SARA 311/312 | See Section 2 for hazard classifications. |
| SARA 313 | Refer to EPA Toxic Release Inventory for current listing status. |

16. OTHER INFORMATION

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