Isopropyl Alcohol
General Purpose Cleaner
1610

Introduction

99.8+% pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue. Can be used as a thinner for most fluxes.

Features / Benefits
Non-Ozone Depleting
Safe on Plastics
Rapidly Evaporating
Zero Residue
Non-Corrosive

Chemical Components

<table>
<thead>
<tr>
<th>Chemical Component</th>
<th>Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
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</tbody>
</table>

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Packaging and Availability

Isopropyl Alcohol may be ordered in the following container sizes:

- 1610-50PK: 50 Pre-Saturated Packets Per Carton
- 1610-100DSP: 100 Pre-Saturated Wipes in Pop-Up Container
- 1610-P: 1 Pint in Plastic
- 1610-PT: 1 Pint in Plastic w/Trigger Sprayer
- 1610-GS: 1 Gallon Bladder
- 1610-G4: 1 Gallon in Plastic (4 1 Gallon Containers Per Pack)
- 1610-5G: 32 Pounds in Plastic
- 1610-54G: 340 Pounds in Plastic
- 1610-N: 1 10ml Pen
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Isopropyl Alcohol
GENERAL USE: General Purpose Cleaning
PRODUCT DESCRIPTION: Alcohol

MANUFACTURER

Techspray, L.P.

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Content</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>&gt; 90</td>
<td>67-63-0</td>
<td>200-661-0</td>
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</tbody>
</table>

EEC LABEL SYMBOL AND CLASSIFICATION

- R11 - Highly flammable.
- EEC Highly flammable - "F"
- R36/38 - Irritating to eyes and skin.
- EEC Irritant - "Xi"
3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, Colorless, Volatile Liquid
IMMEDIATE CONCERNS: Flammable liquid and vapor.

POTENTIAL HEALTH EFFECTS

EYES: Moderately irritating to the eyes.
SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
SKIN ABSORPTION: Skin absorption can occur.
INGESTION: This product is toxic by ingestion. Ingestion may cause irritation of the digestive tract. Nausea and vomiting will most likely occur.
INHALATION: High concentrations in immediate area can displace oxygen and can cause dizziness, unconsciousness, and possibly death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
INGESTION: Do not induce vomiting. Give milk or water. Get immediate medical attention immediately.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 11.7°C (53°F) TAG CC

FLAMMABLE LIMITS: 2.0 to 12.0

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.
PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Alcohol odor
APPEARANCE: Clear, Colorless liquid
pH: Neutral
PERCENT VOLATILE: 100
VAPOR PRESSURE: 33 mmHg at 20°C
VAPOR DENSITY: 2.07 (Air=1)
BOILING POINT: to 82°C (180°F)
FREEZING POINT: to -88°C
SOLUBILITY IN WATER: Miscible
MOLECULAR WEIGHT: 60.09
MOLE. WT. FORMULA: C3H8O
(VOC): 787 g/L (non-exempt VOC)

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatables.

STABILITY: Stable under normal conditions.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO2) may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION