



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

Isopropanol.....	(67-63-0)	100%
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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

MATERIAL SAFETY DATA SHEET

Finished Product

MSDS Ref. No : MS1610Bulk

Isopropyl Alcohol

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Isopropyl Alcohol**GENERAL USE:** General Purpose Cleaning**PRODUCT DESCRIPTION:** Alcohol**PRODUCT CODE:** 1610/CAN/EUR-GS, G4, G, 5G, 54G

MANUFACTURER

Techspray, L.P.

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Content</u>	<u>CAS</u>	<u>EINECS</u>
2-Propanol	> 90	67-63-0	200-661-0

EEC LABEL SYMBOL AND CLASSIFICATION



R11 - Highly flammable.

EEC Highly flammable - "F"



R36/38 - Irritating to eyes and skin.

EEC Irritant - "Xi"



R52 - Harmful to aquatic organisms.

EEC Environment - "N"

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 incompatibles.

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