



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** Isopropyl alcohol  
MCH-0116-51

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## 2. HAZARDS IDENTIFICATION

### GHS classification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 3
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 1 (central nervous system, kidney, systemic toxicity)
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (blood vessel, liver, spleen)
	Aspiration hazard	Category 2
<b>Environmental hazards</b>	Not classified.	

### GHS label elements

**Signal word** Danger



**Hazard statement** Highly flammable liquid and vapor. May cause drowsiness or dizziness.

### Precautionary statement

**Prevention** Do not breathe mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Keep container tightly closed.

**Response** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage** Store in a well-ventilated place. Keep container tightly closed.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Isopropyl alcohol		<100

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### 4. FIRST AID MEASURES

<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
<b>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.

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### 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	Not available.
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Unusual fire &amp; explosion hazards</b>	Flammable Liquid. Will burn if involved in a fire. Vaporizes easily at normal temperatures. Vapors may travel to a source of ignition and flash back.
<b>Hazardous combustion products</b>	Carbon monoxide and carbon dioxide.

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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from heat and sources of ignition. Avoid contact with skin and eyes Use this product with adequate ventilation.
<b>Storage</b>	Keep away from excessive heat, sparks, and open flames.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	
<b>Additional exposure data</b>	Not available.
<b>Engineering measures to reduce exposure</b>	Use in a well ventilated area.
<b>Personal protective equipment</b>	
<b>Skin and body protection</b>	Not available.
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear liquid
<b>Physical state</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Flammability limit - lower (%)</b>	>= 2.5 %

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<b>Flammability limit - upper (%)</b>	<= 12
<b>Vapor pressure</b>	6.05 kPa at 25°C
<b>Evaporation rate</b>	2.3 (butyl acetate = 1)
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Other data</b>	
<b>Molecular formula</b>	C3-H8-O
<b>Oxidizing properties</b>	No information available.
<b>Relative density</b>	0.785 g/cm <sup>3</sup> at 20 °C
<b>VOC (Weight %)</b>	100 %

## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Materials to avoid</b>	Incompatible with strong acids and bases.
<b>Hazardous polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Skin corrosion/irritation</b>	(OECD 402) LD50/dermal/rabbit > 12000 mg/kg.,
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory or skin sensitization</b>	
<b>Skin sensitization</b>	Not available.
<b>Respiratory sensitization</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Toxic to reproduction</b>	Not available.
<b>Further information</b>	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.

## 12. ECOLOGICAL INFORMATION

<b>Environmental effects</b>	Not available.
<b>Persistence / degradability</b>	Not available.
<b>Bioaccumulation</b>	Not available.
<b>Mobility</b>	Not available.

### Ecotoxicological data

Product		Species	Test Results
Isopropyl alcohol			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9460 mg/l, 96 hours

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. TRANSPORT INFORMATION

### IATA

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR****Basic shipping requirements:**

**Proper shipping name** ISOPROPANOL

**Hazard class** 3

**UN number** 1219

**Packing group** II

**Labels required** 3

**Additional information:**

**Item** F1

**Transport Category** 2



**ADR**

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**15. REGULATORY INFORMATION****Regulatory information**

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

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**16. OTHER INFORMATION****Disclaimer**

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

**Prepared by**

HP Inc. Chemical Compliance & Toxicology Department

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**This data sheet contains changes from the previous version in section(s):**

8. Exposure Controls / Personal Protection: OELs

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## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds