



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Isopropyl alcohol  
MCH-0116-51

**Other means of identification** Not available.

**Synonym(s)** 2-PROPANOL \* ISOPROPYL ALCOHOL

**Recommended use** Not available.

**Recommended restrictions** None known.

**Issue date** 06-Jun-2014

**Company identification** Hewlett-Packard Company  
3000 Hanover Street  
Palo Alto, CA 94304-1185  
United States  
Telephone 650-857-5020

Hewlett-Packard health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP Customer Care Line  
(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2

**Health hazards** 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)

**OSHA hazard(s)** Not classified.

### Label elements



**Signal word** Danger

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

### Precautionary statement

**Prevention** P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

**Response** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Disposal** Not available.

**Hazard(s) not otherwise classified (HNOC)** Static accumulating flammable liquid

## 3. Composition/information on ingredients

### Substances

<b>Hazardous components</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
<b>Chemical name</b> Isopropyl alcohol	2-PROPANOL ISOPROPYL ALCOHOL	67-63-0	<100

#### 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.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.

#### 5. Fire-fighting measures

<b>Flash point</b>	53.60 °F (12.00 °C) Closed Cup 75.00 °F (23.89 °C) Open Cup
<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	Not available.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
<b>Methods and materials for containment and cleaning up</b>	Not available.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Keep away from heat and sources of ignition. Avoid contact with skin and eyes Use this product with adequate ventilation.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from excessive heat, sparks, and open flames.

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<b>Material</b>	<b>Type</b>	<b>Value</b>
Isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm

##### US. ACGIH Threshold Limit Values

<b>Material</b>	<b>Type</b>	<b>Value</b>
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

##### US. NIOSH: Pocket Guide to Chemical Hazards

<b>Material</b>	<b>Type</b>	<b>Value</b>
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3 400 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Use in a well ventilated area.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Not available.
<b>Skin protection</b>	
<b>Hand protection</b>	Not available.
<b>Other</b>	Not available.
<b>Respiratory protection</b>	Not available.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</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>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-127.3 °F (-88.5 °C)
<b>Initial boiling point and boiling range</b>	180.5 °F (82.5 °C) 101.325 kPa
<b>Flash point</b>	53.60 °F (12.00 °C) Closed Cup 75.00 °F (23.89 °C) Open Cup
<b>Evaporation rate</b>	2.3 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	>= 2.5 %
<b>Flammability limit - upper (%)</b>	<= 12
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	6.0527 kPa at 25°C 6.053 kPa at 25 °C 6.052728 kPa at 25 °C
<b>Solubility(ies)</b>	Miscible
<b>Partition coefficient (n-octanol/water)</b>	0.1
<b>Auto-ignition temperature</b>	750.2 °F (399 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Dynamic viscosity</b>	2.1 mPa.s
<b>Dynamic viscosity temperature</b>	77 °F (25 °C)
<b>Heat of combustion (NFPA 30B)</b>	27.4 kJ/g
<b>Molecular formula</b>	C3-H8-O C3-H8-O
<b>Molecular weight</b>	60.1 g/mol
<b>Oxidizing properties</b>	No information available.
<b>Percent volatile</b>	100 %

**Specific gravity** 0.785 at 20 °C  
**VOC (Weight %)** 100 %

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## 10. Stability and reactivity

**Reactivity** Not available.  
**Chemical stability** Stable under recommended storage conditions.  
**Possibility of hazardous reactions** Will not occur.  
**Conditions to avoid** Heat, flames and sparks.  
**Incompatible materials** Incompatible with strong acids and bases.  
**Hazardous decomposition products** Carbon monoxide and carbon dioxide.

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## 11. Toxicological information

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

### Information on toxicological effects

#### Acute toxicity

**Skin corrosion/irritation** (OECD 402) LD50/dermal/rabbit > 12000 mg/kg.,

**Serious eye damage/eye irritation** Not available.

**Respiratory sensitization** Not available.

**Skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Carcinogenicity** Not available.

**Reproductive toxicity** Not available.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Not available.

**Aspiration hazard** Not available.

**Further information** 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.

Product	Species	Test Results
MCH-0116-51 (CAS 67-63-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12800 mg/kg
<i>Oral</i>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
		4.5 g/kg
	Rabbit	6410 mg/kg
		5.03 g/kg
	Rat	5045 mg/kg
		4.7 g/kg
<i>Other</i>		
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg

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## 12. Ecological information

### Ecotoxicity

Product		Species	Test Results
Isopropyl alcohol (CAS 67-63-0)			
<i>Acute</i>			
Algae	EC50	Algae	> 1000 mg/l, 72 hours
Crustacea	EC50	Daphnia	13299 mg/l, 48 hours
<b>Aquatic</b>			
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	> 1400 mg/l, 96 hours
<i>Acute</i>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9460 mg/l, 96 hours

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)**  
0.05

**Mobility in soil** Not available.

**Other adverse effects** Not available.

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## 13. Disposal considerations

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations.

**Local disposal regulations** Not available.

**Hazardous waste code** Not regulated.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

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## 14. Transport information

### IATA

**UN number** UN1219  
**UN proper shipping name** Isopropanol  
**Transport hazard class(es)** 3  
**Subsidiary class(es)** -  
**Packaging group** II  
**Environmental hazards** No  
**Labels required** Not available.  
**ERG Code** 3L  
**Special precautions for user** Not available.

### IMDG

**UN number** UN1219  
**UN proper shipping name** ISOPROPANOL  
**Transport hazard class(es)** 3  
**Subsidiary class(es)** -  
**Packaging group** II  
**Environmental hazards**  
**Marine pollutant** No  
**Labels required** Not available.  
**EmS** F-E, S-D  
**Special precautions for user** Not available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.



## 15. Regulatory information

### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**  
 No

**SARA 311/312 Hazardous chemical**  
 No

### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Not listed.

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Not regulated.

**DEA Exempt Chemical Mixtures Code Number**

Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

### US state regulations

**US. Massachusetts RTK - Substance List**

Isopropyl alcohol (CAS 67-63-0)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Isopropyl alcohol (CAS 67-63-0)

**US. Rhode Island RTK**

Isopropyl alcohol (CAS 67-63-0)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**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, including date of preparation or last revision****Issue date** 06-Jun-2014**Version #** 01**Further information** Not available.**Disclaimer** This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company 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.**Revision Information** Product and Company Identification: Synonyms  
Hazards Identification: US Hazardous  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Ecological Information: Ecotoxicity  
Transport Information: Proper Shipping Name/Packing Group  
15. Regulatory Information: Canada  
HazReg Data: North America**Manufacturer information** Hewlett-Packard Indigo BV  
Startbaan 16  
1187 XR Amstelveen  
The Netherlands  
(Direct) 1-503-494-7199  
(Toll-free within the US) 1-800-457-4209**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