

C3844Series[LM]-MSDS_US-English-02.pdf

C3844Series[Y]-MSDS_US-English-02.pdf



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation C3844Series[LM]
Version # 02
Revision date 27-Jan-2012
CAS # Mixture
Company identification Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Acute health effects

Skin contact
Alkyldiol
Contact with skin may result in irritation.
Alkyldiol ethoxylate
Contact with skin may result in severe irritation.

Eye contact
1-butanol
Risk of serious damage to eyes. Contact with eyes may result in irritation.
Alkyldiol
Contact with eyes may result in irritation.
Alkyldiol ethoxylate
Contact can cause moderate to severe irritation and possible injury to the eyes.

Inhalation
1-butanol
Inhalation may result in respiratory irritation. Inhalation may cause drowsiness or dizziness.
Alkyldiol
Inhalation may result in respiratory irritation.

Ingestion
1-butanol
Harmful if swallowed.
Alkyldiol ethoxylate
Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Water	7732-18-5	80 - 90
Alkyldiol	Proprietary	7.5 - 10
1-butanol	71-36-3	1 - 2.5
Alkyldiol ethoxylate	Proprietary	< 2.5

4. First Aid Measures

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media None known.

Specific methods None established.

Hazardous combustion products Refer to section 10.

6. Accidental Release Measures

7. Handling and Storage

8. Exposure Controls / Personal Protection

Occupational exposure limits**ACGIH**

Components	Type	Value
1-butanol (71-36-3)	TWA	20.0000 ppm

U.S. - OSHA

Components	Type	Value
1-butanol (71-36-3)	PEL	100.0000 ppm 300.0000 mg/m3

U.S. - Tennessee

Components	Type	Value
1-butanol (71-36-3)	Ceiling	50.0000 ppm 150.0000 mg/m3

9. Physical & Chemical Properties

Appearance	Not available.
Color	Light Magenta
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	6.5
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not determined
Flash point	200 °F (93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	Not available.
Specific gravity	1
Relative density	Not available.
Solubility (water)	Soluble in water
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity 2 cp
VOC < 3 %

10. Chemical Stability & Reactivity Information

11. Toxicological Information

Serious eye damage/eye irritation Not available.

Symptoms and target organs

Target Organs (NIOSH)

1-butanol (CAS 71-36-3)	Central Nervous System Eyes Respiratory system Skin
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12. Ecological Information

Persistence and degradability Not available.

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

1-butanol (CAS 71-36-3)	U031
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14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1-butanol (CAS 71-36-3)	1.0 %
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US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

1-butanol (CAS 71-36-3)	Listed.
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CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations

US - New Jersey Community RTK (EHS Survey): Listed substance

1-butanol (CAS 71-36-3)	Substance no. 1330
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US - New Jersey Community RTK (EHS Survey): Reportable threshold

1-butanol (CAS 71-36-3)

500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1-butanol (CAS 71-36-3)

Listed.

16. Other Information

Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 0 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 2 Instability: 0
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.
Issue date	27-Jan-2012
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209
Explanation of abbreviations	

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



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5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media None known.

Specific methods None established.

Hazardous combustion products Refer to section 10.

6. Accidental Release Measures

7. Handling and Storage

8. Exposure Controls / Personal Protection

Occupational exposure limits**ACGIH**

Components	Type	Value
1-butanol (71-36-3)	TWA	20.0000 ppm

U.S. - OSHA

Components	Type	Value
1-butanol (71-36-3)	PEL	100.0000 ppm 300.0000 mg/m3

U.S. - Tennessee

Components	Type	Value
1-butanol (71-36-3)	Ceiling	50.0000 ppm 150.0000 mg/m3

9. Physical & Chemical Properties

Appearance	Not available.
Color	Yellow
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	6.5
Melting point	Not available.
Freezing point	Not available.
Boiling point	Not determined
Flash point	200 °F (93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	Not available.
Specific gravity	1
Relative density	Not available.
Solubility (water)	Soluble in water
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity 2 cp
VOC < 3 %

10. Chemical Stability & Reactivity Information

11. Toxicological Information

Serious eye damage/eye irritation Not available.

Symptoms and target organs

Target Organs (NIOSH)

1-butanol (CAS 71-36-3)	Central Nervous System Eyes Respiratory system Skin
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12. Ecological Information

Aquatic toxicity Static acute toxicity (trout), survival (100 mg/L) = 97%
Static acute toxicity (trout), survival (10 mg/L) = 100%

Persistence and degradability Not available.

13. Disposal Considerations

Waste codes

US RCRA Hazardous Waste U List: Reference

1-butanol (CAS 71-36-3)	U031
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14. Transport Information

DOT

Not regulated as dangerous goods.

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1-butanol (CAS 71-36-3)	Listed.
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CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance	No
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Section 311 hazardous chemical	Yes
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State regulations

US - New Jersey Community RTK (EHS Survey): Listed substance

1-butanol (CAS 71-36-3) Substance no. 1330

US - New Jersey Community RTK (EHS Survey): Reportable threshold

1-butanol (CAS 71-36-3) 500 LBS

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1-butanol (CAS 71-36-3) Listed.

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