

CP797Series[A]-MSDS_US-English-03.pdf

CP797Series[B]-MSDS_US-English-03.pdf



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CP797Series[A]
Version # 03
Issue date 10-Mar-2013
Revision date 25-Jun-2013
CAS # Mixture
Synonym(s) FlexiCoat Varnish
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) 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. Hazards Identification

Emergency overview Flammable. Prolonged or repeated skin contact may cause drying, cracking, or irritation. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential health effects

Eyes Avoid contact with eyes. Contact with eyes may result in irritation. Contact with eyes may result in irritation.

Skin Avoid contact with the skin. Contact with skin may result in irritation. Prolonged contact may cause dryness of the skin.

Inhalation Avoid breathing vapors or mists of this product. Harmful if inhaled.

Ingestion May be harmful if swallowed.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Propylene Glycol Monomethyl Ether Acetate	108-65-6	<50
n-Butyl Acetate	123-86-4	<15
2,4-Pentanedione	123-54-6	<10
Benzotriazole derivative	Mixture	<5
Amine Light Stabilizer	Mixture	<2.5
Cellulose, Acetate Butyrate	Mixture	<2.5
Non-hazardous components	CAS #	Percent
Polyester Polyol	N/A	<40

4. First Aid Measures

General advice No information

First aid procedures

Eye contact	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.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Ingestion	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
Unsuitable extinguishing media	Water.
Protection of firefighters	
Protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk.

6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling	Impervious gloves should be used at all times when handling this product. Avoid contact with skin, eyes and clothing. Task is followed by a period of evaporation, drying or curing. Equipment used for curing must be adequately exhausted.
Storage	Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
2,4-Pentanedione (CAS 123-54-6)	TWA	25 ppm
n-Butyl Acetate (CAS 123-86-4)	STEL	200 ppm
	TWA	150 ppm

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

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	PEL	710 mg/m3
		150 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	STEL	950 mg/m3
		200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
	TWA	710 mg/m ³ 150 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)	TWA	50 ppm

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	STEL	950 mg/m ³
	TWA	200 ppm 710 mg/m ³ 150 ppm

Exposure guidelines Exposure limits have not been established for this product.

US. ACGIH Threshold Limit Values

2,4-Pentanedione (CAS 123-54-6) Can be absorbed through the skin.

Personal protective equipment

Eye / face protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Skin protection Wear appropriate chemical resistant gloves.
Wear appropriate chemical resistant clothing.

Respiratory protection Full face filter respirator. Provide adequate ventilation. The following actions are recommended :
Carry out in a vented booth or extracted enclosure.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical & Chemical Properties

Appearance	Not available.
Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Characteristic.
pH	Not available.
Vapor pressure	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	95.90 °F (35.50 °C) Closed Cup
VOC	< 950 g/L
Other information	For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Exposure to sunlight.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
2,4-Pentanedione (CAS 123-54-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	790 mg/kg
<i>Inhalation</i>		
LC50	Fischer 344 rat	114 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	951 mg/kg
	Rat	55 mg/kg
<i>Other</i>		
LD50	Mouse	750 mg/kg
	Rabbit	810 mg/kg
n-Butyl Acetate (CAS 123-86-4)		
Acute		
<i>Inhalation</i>		
LC50	Wistar rat	160 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	14000 mg/kg
Sensitization	May cause sensitization by skin contact.	
Serious eye damage/eye irritation	Not available.	
Further information	Complete toxicity data are not available for this specific formulation	

12. Ecological Information

Aquatic toxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecotoxicological data

Components	Species	Test Results
2,4-Pentanedione (CAS 123-54-6)		
Aquatic		
Crustacea	EC50	Water flea (Ceriodaphnia reticulata) 72 - 78 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 58.4 - 76.6 mg/l, 96 hours
n-Butyl Acetate (CAS 123-86-4)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 17 - 19 mg/l, 96 hours
Persistence and degradability	Not available.	
Bioaccumulation / Accumulation		
Bioaccumulative potential		
Octanol/water partition coefficient log Kow		
2,4-Pentanedione		0.14
n-Butyl Acetate		1.78
Partition coefficient		
2,4-Pentanedione		0.14
n-Butyl Acetate		1.78

13. Disposal Considerations

Disposal instructions

Do not dispose of together with general office waste.
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1263
Proper shipping name Paint
Hazard class 3
Packing group III

IATA

UN number UN1263
UN proper shipping name Paint
Transport hazard class(es) 3
Packing group III

IMDG

UN number UN1263
UN proper shipping name Paint
Transport hazard class(es) 3
Packing group III

DOT



IATA; IMDG



RID

Basic shipping requirements:

Proper shipping name Paint
Hazard class 3
UN number 1263
Packing group III



RID

15. Regulatory Information

US federal regulations US TSCA 12(b): Contains Acetyl Acetone (CAS 123-54-6), subject to export notification requirements.

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.

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

2,4-Pentanedione (CAS 123-54-6)

1.0 % One-Time Export Notification only.

CERCLA (Superfund) reportable quantity

n-Butyl Acetate: 5000

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Other information

VOC content (less water, less exempt compounds) = < 950 g/L (U.S. requirement, not for emissions)

Other regulations

The components of this product are reported in the following inventories: United States of America, Australia, China, Korea and Philippines.

State regulations

US - New Jersey RTK - Substances: Listed substance

2,4-Pentanedione (CAS 123-54-6)

Listed.

n-Butyl Acetate (CAS 123-86-4)

Listed.

US. Massachusetts RTK - Substance List

2,4-Pentanedione (CAS 123-54-6)

n-Butyl Acetate (CAS 123-86-4)

US. Pennsylvania RTK - Hazardous Substances

2,4-Pentanedione (CAS 123-54-6)

Listed.

n-Butyl Acetate (CAS 123-86-4)

Listed.

US. Rhode Island RTK

n-Butyl Acetate (CAS 123-86-4)

16. Other Information

HMIS® ratings

Health: 2
Flammability: 3
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 3
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.

Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Issue date

10-Mar-2013

Manufacturer information

Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) +972 (9) 892-4628

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



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CP797Series[B]
Version # 03
Issue date 10-Mar-2013
Revision date 25-Jun-2013
CAS # Mixture
Synonym(s) FlexiCoat Hardener
Company identification Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-5020

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(Direct) 760-710-0048
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(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview Flammable. Harmful by inhalation. Irritating to respiratory system. May cause sensitization by skin contact. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Potential health effects

Eyes Avoid contact with eyes.
Causes eye irritation. Contact with eyes may result in irritation.

Skin Avoid contact with the skin. Contact with skin may result in irritation.

Inhalation Do not breathe vapour. Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Ingestion May be harmful if swallowed.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Propylene Glycol Monomethyl Ether Acetate	108-65-6	<60
Hexamethylene-1,6-diisocyanate Homopolymer	28182-81-2	<50
n-Butyl Acetate	123-86-4	< 7.5

4. First Aid Measures

General advice No information

First aid procedures

Eye contact 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.

Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

Inhalation Move to fresh air. If symptoms persist, get medical attention.

Ingestion If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Dry powder. Carbon dioxide (CO ₂). Water may be ineffective.
Unsuitable extinguishing media	Water.
Protection of firefighters	
Protective equipment and precautions for firefighters	Avoid runoff into storm sewers and ditches which lead to waterways.
Fire fighting equipment/instructions	Not available.

6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling	Impervious gloves should be used at all times when handling this product. Task is followed by a period of evaporation, drying or curing. Equipment used for curing must be adequately exhausted.
Storage	Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	STEL	200 ppm
	TWA	150 ppm

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

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	PEL	710 mg/m ³
		150 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	STEL	950 mg/m ³
	TWA	200 ppm
		710 mg/m ³
	150 ppm	

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Propylene Glycol Monomethyl Ether Acetate (CAS 108-65-6)	TWA	50 ppm

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	STEL	950 mg/m ³

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Components	Type	Value
		200 ppm
	TWA	710 mg/m ³
		150 ppm
Exposure guidelines	Exposure limits have not been established for this product.	
Personal protective equipment		
Eye / face protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.	
Skin protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.	
Respiratory protection	Full face filter respirator. Provide adequate ventilation. The following actions are recommended : Carry out in a vented booth or extracted enclosure.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.	

9. Physical & Chemical Properties

Appearance	Not available.
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Characteristic.
pH	Not available.
Vapor pressure	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	107.60 °F (42.00 °C) Closed Cup
VOC	< 1000 g/L
Other information	For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Exposure to sunlight.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.

11. Toxicological Information

Toxicological data		
Components	Species	Test Results
n-Butyl Acetate (CAS 123-86-4)		
Acute		
<i>Inhalation</i>		
LC50	Wistar rat	160 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	14000 mg/kg
Sensitization	May cause sensitization by skin contact.	

Serious eye damage/eye irritation Not available.

Further information Complete toxicity data are not available for this specific formulation

12. Ecological Information

Aquatic toxicity No information available.

Ecotoxicological data

Components	Species	Test Results
n-Butyl Acetate (CAS 123-86-4)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) 17 - 19 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

n-Butyl Acetate 1.78

Partition coefficient

n-Butyl Acetate 1.78

13. Disposal Considerations

Disposal instructions Do not dispose of together with general office waste.
Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Ensure collection and disposal with an appropriately licensed waste contractor.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1263
Proper shipping name Paint
Hazard class 3
Packing group III

IATA

UN number UN1263
UN proper shipping name Paint
Transport hazard class(es) 3
Packing group III

IMDG

UN number UN1263
UN proper shipping name Paint
Transport hazard class(es) 3
Packing group III

DOT



IATA; IMDG



RID

Basic shipping requirements:

Proper shipping name Paint
Hazard class 3
UN number 1263
Packing group III



RID

15. Regulatory Information

US federal regulations

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

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.

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

Not regulated.

CERCLA (Superfund) reportable quantity

n-Butyl Acetate: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
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 information

VOC content (less water, less exempt compounds) = < 1000 g/L (U.S. requirement, not for emissions)

Other regulations

The components of this product are reported in the following inventories: United States of America, Australia, China, Korea and Philippines.

State regulations

US - New Jersey RTK - Substances: Listed substance

n-Butyl Acetate (CAS 123-86-4) Listed.

US. Massachusetts RTK - Substance List

n-Butyl Acetate (CAS 123-86-4)

US. Pennsylvania RTK - Hazardous Substances

n-Butyl Acetate (CAS 123-86-4) Listed.

US. Rhode Island RTK

n-Butyl Acetate (CAS 123-86-4)

16. Other Information

HMIS® ratings

Health: 2*
Flammability: 2
Physical hazard: 2
Personal protection:

NFPA ratings

Health: 2
Flammability: 2
Instability: 2

Disclaimer

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Other information

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(Direct) +972 (9) 892-4628

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