

CP797Series[A]-MSDS_JAPAN-English-04.pdf

CP797Series[B]-MSDS_JAPAN-English-04.pdf



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name CP797Series[A]
Company identification Hewlett-Packard Japan, Ltd.
 2-2-1 Ojima, Koto-ku, Tokyo, 136-8711 Japan
 Telephone (+81) 3 5628-1101

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
 Poison Information Centre 0120-50-3024

2. Hazards identification

Classification R10, R43-66, R52/53
Physical hazards Flammable.
Health hazards May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking.
Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS #	Percent
Propylene Glycol Monomethyl Ether Acetate	108-65-6	<50
Polyester Polyol	N/A	<40
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

Synonym(s) FlexiCoat Varnish

4. First aid measures

If inhaled Move to fresh air. If symptoms persist, get medical attention.
If on skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
If in eyes 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.
If swallowed If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.
Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point 95.90 °F (35.50 °C) Closed Cup
Extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.

Extinguishing media to avoid	Water.
Special fire fighting procedures	Move containers from fire area if you can do it without risk.
Protection of fire-fighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	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.
Clean-up methods and materials and containment measures	Not available.

7. Handling and storage

Handling

Technical measures	Not available.
Local and general ventilation	Not available.
Precautions	Impervious gloves should be used at all times when handling this product. Avoid contact with eyes, skin, and clothing. Task is followed by a period of evaporation, drying or curing. Equipment used for curing must be adequately exhausted.
Safe handling advice	Not available.

Storage

Technical measures	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.
Suitable storage conditions	Not available.
Incompatible products	No data.
Safe packaging materials	Not available.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - ISHL. (Workplace Environment Assessment Standards)

Components	Type	Value
N-BUTYL ACETATE (CAS 123-86-4)	TLV	150 ppm

Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits)

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	TWA	475 mg/m ³
		100 ppm

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

Recommended monitoring procedures

Additional exposure data Exposure limits have not been established for this product.

Personal protective equipment

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

Hand protection Not available.

Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
Skin and body protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.
Hygiene measures	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 and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Characteristic.
Odor threshold	No information available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	95.90 °F (35.50 °C) Closed Cup
Auto-ignition temperature	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Specific gravity	Not available.
Solubility	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
VOC (Weight %)	< 950 g/L

10. Stability and reactivity

Stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
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.

11. Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Symptoms	Not available.
Acute toxicity	

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
Carcinogenicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available	
Other information	Complete toxicity data are not available for this specific formulation	

12. Ecological information

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
Ecotoxicity	No data available.		
Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Bioaccumulation			
Bioaccumulative potential			
Octanol/water partition coefficient log Kow			
2,4-Pentanedione		0.14	
n-Butyl Acetate		1.78	
Mobility in soil	No data available.		

13. Disposal considerations

Contaminated packaging	No special precautions.
Local disposal regulations	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

International regulations

IATA

Basic shipping requirements:

UN number UN1263

Proper shipping name Paint

Hazard class 3

Packing group III

Environmental hazards

Marine pollutant Not regulated.

IMDG

Basic shipping requirements:

UN number UN1263

Proper shipping name Paint

Hazard class 3

Packing group III

Environmental hazards

Marine pollutant Not regulated.

(P / Not regulated)

IATA; IMDG



ADR

Basic shipping requirements:

UN number 1263

Proper shipping name Paint

Hazard class 3

Packing group III



ADR

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation

Class 1 organic solvents

Not regulated.

Organic solvent regulation**Class 2 organic solvents**

N-BUTYL ACETATE

Class 3 organic solvents

Not regulated.

Notifiable substances

Not regulated.

Labeling substances

N-BUTYL ACETATE

0 - 10 %

Poisonous and Deleterious Substances Control Act**Specified poisonous substances**

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.**Class I specified chemical substances**

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

Law concerning Pollutant Release and Transfer Register**Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Class 4 Group 2 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Flammable liquid materials

Air Law, Enforcement Rule

Flammable liquid materials

Explosives Control Act

Not regulated.

High Pressure Gas Safety Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

BUTYL ACETATE

Category: Y

Waste Management and Public Cleansing Act

Not regulated.

Regulatory information

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

16. Other information

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.

Version number 01

This data sheet contains changes from the previous version in section(s): Product and Company Identification: Synonyms
Composition / Information on Ingredients: Disclosure Overrides
9. Physical & Chemical Properties: Multiple Properties
14. Transport Information: Material Transportation Information
15. Regulatory Information: Risk Phrases - Labeling
HazReg Data: Europe - EU

Issue date 29-Sep-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

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Company identification Hewlett-Packard Japan, Ltd.
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 Telephone (+81) 3 5628-1101

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 (Direct) 1-208-323-2551
 Email: hpcustomer.inquiries@hp.com
 Poison Information Centre 0120-50-3024

2. Hazards identification

Classification R10, Xn;R20, Xi;R37, R43
Physical hazards Flammable.
Health hazards Harmful by inhalation. Irritating to respiratory system. May cause sensitization by skin contact.
Environmental hazards Not classified as an environmental hazard.
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.

3. Composition/information on ingredients

Substance or mixture Mixture

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

Synonym(s) FlexiCoat Hardener

4. First aid measures

If inhaled Move to fresh air. If symptoms persist, get medical attention.
If on skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
If in eyes 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.
If swallowed If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.
Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point 107.60 °F (42.00 °C) Closed Cup
Extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.
Extinguishing media to avoid Water.
Protection of fire-fighters Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	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.
Clean-up methods and materials and containment measures	Not available.

7. Handling and storage

Handling

Technical measures	Not available.
Local and general ventilation	Not available.
Precautions	Impervious gloves should be used at all times when handling this product. Avoid contact with eyes, skin, and clothing. Task is followed by a period of evaporation, drying or curing. Equipment used for curing must be adequately exhausted. Do not eat, drink or smoke when using the product.
Safe handling advice	Avoid contact with skin, eyes and clothing.

Storage

Technical measures	Keep away from excessive heat or cold. Do not handle or store near an open flame, heat or other sources of ignition. Do not store in direct sunlight.
Suitable storage conditions	Not available.
Incompatible products	No data.
Safe packaging materials	Not available.

8. Exposure controls/personal protection

Occupational exposure limits

Japan. OELs - ISHL. (Workplace Environment Assessment Standards)

Components	Type	Value
N-BUTYL ACETATE (CAS 123-86-4)	TLV	150 ppm

Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits)

Components	Type	Value
n-Butyl Acetate (CAS 123-86-4)	TWA	475 mg/m ³
		100 ppm

US. ACGIH Threshold Limit Values

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

Recommended monitoring procedures

Additional exposure data Exposure limits have not been established for this product.

Personal protective equipment

Respiratory protection	Full face filter respirator. Provide adequate ventilation. The following actions are recommended : Carry out in a vented booth or extracted enclosure.
Hand protection	Not available.
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
Skin and body protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

Hygiene measures	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.
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9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Characteristic.
Odor threshold	No information available.
pH	Not available.
Melting point/Freezing point	Not available.
Boiling point, initial boiling point, and boiling range	Not available.
Flash point	107.60 °F (42.00 °C) Closed Cup
Auto-ignition temperature	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Specific gravity	Not available.
Solubility	Not available.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Other data	
VOC (Weight %)	< 1000 g/L

10. Stability and reactivity

Stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
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.

11. Toxicological information

General information	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Symptoms	Not available.
Acute toxicity	

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
Carcinogenicity	No data available.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Other information	Complete toxicity data are not available for this specific formulation	

12. Ecological information

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
Ecotoxicity	No data available.	
Aquatic toxicity	No information available.	
Bioaccumulation		
Bioaccumulative potential		
Octanol/water partition coefficient log Kow		
n-Butyl Acetate		1.78
Mobility in soil	No data available.	

13. Disposal considerations

Contaminated packaging	No special precautions.
Local disposal regulations	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

International regulations	
IATA	
Basic shipping requirements:	
UN number	UN1263
Proper shipping name	Paint
Hazard class	3
Packing group	III
Environmental hazards	
Marine pollutant	Not regulated.
IMDG	
Basic shipping requirements:	
UN number	UN1263
Proper shipping name	Paint
Hazard class	3
Packing group	III
Environmental hazards	
Marine pollutant (P / Not regulated)	Not regulated.

IATA; IMDG**ADR****Basic shipping requirements:**

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

**ADR**

15. Regulatory information

Industrial Safety and Health Act**Specified substances regulation****Class 1 designated chemical substances**

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation**Class 1 organic solvents**

Not regulated.

Class 2 organic solvents

N-BUTYL ACETATE

Class 3 organic solvents

Not regulated.

Notifiable substances

Not regulated.

Labeling substances

N-BUTYL ACETATE

0 - 5.0 %

Poisonous and Deleterious Substances Control Act**Specified poisonous substances**

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.**Class I specified chemical substances**

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

Law concerning Pollutant Release and Transfer Register**Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Class 4 Group 2 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Flammable liquid materials

Air Law, Enforcement Rule

Flammable liquid materials

Explosives Control Act

Not regulated.

High Pressure Gas Safety Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

BUTYL ACETATE

Category: Y

Waste Management and Public Cleansing Act

Not regulated.

Regulatory information

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

16. Other information

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Version number

01

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

Product and Company Identification: Synonyms
 2. Hazards Identification: EU Hazard Classifications
 Composition / Information on Ingredients: Disclosure Overrides
 9. Physical & Chemical Properties: Multiple Properties
 14. Transport Information: Material Transportation Information
 Regulatory Information: Hazard Symbol - Labeling

Issue date

29-Sep-2013

Manufacturer information

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 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