

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

CR334Series

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 07-Jun-2013

Version number 02

Revision date 29-Sep-2013 Supersedes date 07-Jun-2013

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Inkjet printing Uses advised against None known.

Company identification Hewlett-Packard, Ltd.

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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 Center 0207771 5307

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Emergency overview Contact with skin and eyes may result in irritation.

Hazard summary

Physical hazards Not classified for physical hazards. **Health hazards** Not classified as a health hazard.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Not available. Main symptoms Not available.

2.2. Label elements

Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: 2-pyrrolidone, Acrylic-Styrene Polymer, Carbon black, Substituted diol, Water

R-phrase(s) Not available. S-phrase(s) Not available. **Authorization number** Not available. Supplemental label

information

Not applicable.

2.3. Other hazards Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present

this carcinogenic risk. None of the other ingredients in this preparation are classified as

carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA. Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data

are not available for this specific formulation

Material name: CR334Series SDS UK

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Water		>60	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				
2-pyrrolidone		<20	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H3	19			
Substituted diol		<10	2163-42-0 412-350-5	-	-	
Classification:	DSD:	-				
	CLP:	-				
Acrylic-Styrene Polymer		<7.5	Mixture	-	-	
Classification:	DSD:	_				
	CLP:	-				
Carbon black		<2.5	1333-86-4 215-609-9	-	-	
Classification:	DSD:	-				
	CLP:	-				

Con

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

Carbon black is present only in a bound form in this preparation.

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

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

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

attention.

Not available.

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.

Ingestion If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

No notes to physicians.

needed

SECTION 5: Firefighting measures

General fire hazards Not available.

Material name: CR334Series SDS UK

5.1. Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or

foam, applied as a mist or spray.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

procedures

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Not available.

6.2. Environmental

precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for

containment and cleaning up

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand

or diatomaceous earth, commercial sorbents, or recover using pumps.

6.4. Reference to other

sections

Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep away from excessive heat or cold.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	туре	value
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3
-555 55 1,	TWA	3.5 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

Use in a well ventilated area.

controls

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment to minimize exposure to skin and eye.

Eye/face protection Not available.

Skin protection

- Hand protection Not available.

Material name: CR334Series SDS UK

- Other Not available. Respiratory protection Not available. Thermal hazards Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

boiling range

Physical state Liquid. **Form** Not available. Color Black.

Odor Not available.

Odor threshold Not available.

9 pН

Melting point/freezing point Not available. Not available. Initial boiling point and

Flash point 200.00 °F (93.33 °C) Pensky-Martens Closed Cup

Evaporation rate Not applicable. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Not applicable. Vapor pressure **Relative density** Not available. Not available. Solubility(ies) **Partition coefficient**

(n-octanol/water)

Not available.

Decomposition temperature Not available. **Viscosity** Not applicable. **Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

VOC (Weight %) 294 g/l Method 24/ASTM D403-93

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents.

10.6. Hazardous Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon decomposition products dioxide and/or low molecular weight hydrocarbons., hydrogen fluoride, fluorinated hydrocarbons.

SECTION 11: Toxicological information

General information Not available. Information on likely routes of exposure

Ingestion Not available. **Inhalation** Not available. Not available. Skin contact Eye contact Not available. Not available. **Symptoms**

Material name: CR334Series SDS UK

4/8

11.1. Information on toxicological effects

Acute toxicity

Components 2-pyrrolidone (CAS 616-45-5) Acute Oral LD50	Species	Test Results
Acute Oral LD50		
Oral LD50		
LD50		
	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Carbon black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Substituted diol (CAS 2163-42-0)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5.1 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity		
IARC Monographs. Overall	Evaluation of Carcino	genicity
Carbon black (CAS 1333-8	36-4)	2B Possibly carcinogenic to humans.
Reproductive toxicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
Specific target organ toxicity	Not available.	

- repeated exposure

Aspiration hazard

Mixture versus substance

information

Not available.

Not available.

Other 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.

SECTION 12: Ecological information

12.1. Toxicity

Product		Species	Test Results
CR334Series (CAS Mixture)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fathead minnow (Pimephales promelas)	< 531.3 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
12.2. Persistence and degradability	Not available.		

Material name: CR334Series SDS UK

12.3. Bioaccumulative

potential

Not available.

Partition coefficient

n-octanol/water (log Kow)

2-pyrrolidone -0.85

Bioconcentration factor (BCF) Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

Disposal methods/information

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.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service

is available in your location, please visit http://www.hp.com/recycle.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Material name: CR334Series SDS UK

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

Other regulationsAll 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.

National regulations

15.2. Chemical Safety

Assessment

Not available.

Other information

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications

and amendments).

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

SECTION 16: Other information

References Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 R36 Irritating to eyes.

under Sections 2 to 15

H319 Causes serious eye irritation.

Revision information

1. Product and Company Identification: Alternate Trade Names

Ecological Information: Ecotoxicity

SECTION 12: Ecological information: Aquatic toxicity

Training information

Not available.

Disclaimer

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may not meet regulatory requirements in other countries.

Manufacturer information

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Material name: CR334Series SDS UK

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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