

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C4838Series

designation of the mixture

Registration number N/A
Synonyms None.

Issue date 21-Jun-2013

Version number 02

Revision date 04-Oct-2013 **Supersedes date** 21-Jun-2013

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

Identified usesInkjet printingUses advised againstNone known.

Company identification Hewlett-Packard, Ltd.

Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 44 (0) 879 013 0790

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 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.

Causes skin irritation.

Hazard summary

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

Environmental hazards Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

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

Contains: 1,5-pentanediol, 2-pyrrolidone, Alkyldicarboxylic acid, Substituted naphthalenesulfonate salt # 7,

Tetraethylene glycol, Water

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

information

2.3. Other hazardsThis yellow ink is not classified according to EU Directive 1999/45/EC. 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: C4838Series 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			<70	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-					
	CLP:	-					
1,5-pentanediol			<15	111-29-5 203-854-4	-	-	
Classification:	DSD:	-					
	CLP:	-					
2-pyrrolidone			<7.5	616-45-5 210-483-1	-	-	
Classification:	DSD:	Xi;R36					
	CLP:	Eye Irri	t. 2;H31	9			
Alkyldicarboxylic acid			<5	Proprietary 203-740-4	-	-	
Classification:	DSD:	Xi;R36/	37-41				
	CLP:	Skin Irr	it. 2;H31	15, Eye Dam. 1;H318	, STOT SE 3;H335		
Substituted naphthalenes # 7	ulfonate	e salt	<5	Proprietary 233-316-4	-	-	
Classification:	DSD:	-					
	CLP:	-					
Tetraethylene glycol			<2.5	112-60-7 203-989-9	-	-	
Classification:	DSD:	-					
	CLP:	-					

Co

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.

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

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

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

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

Not available.

4.3. Indication of any

No notes to physicians.

immediate medical attention and special treatment

needed

Material name: C4838Series SDS UK

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

media 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 No exposure limits noted for ingredient(s).

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

controls

Use in a well ventilated area.

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. - Other Not available. Respiratory protection Not available.

Material name: C4838Series SDS UK

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

Physical state Liquid. **Form** Not available. Color Not available. Odor Not available. **Odor threshold** Not available. pН 3.8 - 4.2Not available. Melting point/freezing point

Initial boiling point and

boiling range

Not determined

Flash point Not applicable. **Evaporation rate** Not determined Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not determined

Flammability limit -

upper (%)

Not available.

Vapor pressure Not determined **Relative density** Not available. Solubility(ies) Soluble in water Not available. **Partition coefficient**

(n-octanol/water)

Decomposition temperature Not available. **Viscosity** >= 2 cp**Explosive properties** Not available. **Oxidizing properties** Not determined

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

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.

SECTION 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. 11.1. Information on toxicological effects

Acute toxicity

Material name: C4838Series SDS UK 4/8

Components Species Test Results 2-pyrrolidone (CAS 616-45-5) **Acute** Oral LD50 Guinea pig 6500 mg/kg Rat 6500 mg/kg Alkyldicarboxylic acid (CAS Proprietary) **Acute** Oral LD50 Rat 2260 mg/kg Tetraethylene glycol (CAS 112-60-7) **Acute** Dermal LD50 Rabbit 22570 mg/kg Oral LD50 Rat 32700 mg/kg 29 g/kg Skin corrosion/irritation Not available. Serious eye damage/eye Not available. irritation **Respiratory sensitization** Not available. Skin sensitization Not available. Germ cell mutagenicity Not available. Carcinogenicity Not available. Not available. Reproductive toxicity Specific target organ toxicity Not available. - single exposure Specific target organ toxicity Not available. - repeated exposure **Aspiration hazard** Not available. Mixture versus substance Not available. information Other information This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures. SECTION 12: Ecological information

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

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

12.1. Toxicity

Product		Species	Test Results
C4838Series (CAS Mixture)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	< 400 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
Alkyldicarboxylic acid (CAS Pr	oprietary)		
Fish	LC50	Fish	101, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	350 - 400 mg/l, 48 hours
12.2. Persistence and degradability	Not available.		

Material name: C4838Series SDS UK

12.3. Bioaccumulative

potential

Not available.

Partition coefficient

Partition Coefficient

n-octanol/water (log Kow)

2-pyrrolidone -0.85 Alkyldicarboxylic acid -0.59

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

methods/information 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 Not listed.

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

Not listed.

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

Not listed.

Authorizations

Material name: C4838Series SDS UK

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

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. 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.

National regulations 15.2. Chemical Safety

Assessment

Not available.

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. R36/37 Irritating to eyes and respiratory system.

R41 Risk of serious damage to eyes.

H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Revision information Ecological Information: Ecotoxicity

Not available.

SECTION 12: Ecological information: Aquatic toxicity

Training information

Disclaimer

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc 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.

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

Material name: C4838Series 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

Material name: C4838Series SDS UK