

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

CH645Series

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 19-Jun-2013

Version number

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.

Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 1 344 36-0000

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: 1-(2-hydroxyethyl)-2-pyrrolidone, 2-pyrrolidone, Aliphatic diol, Substituted naphthalenesulfonate

salt # 13, Water

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

information

Not applicable.

2.3. Other hazards This 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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Material name: CH645Series SDS UK 1/8

General information

Chemical name			%	CAS-No. / EC No.	REACH Registration No.	Index No.	Note
Water			> 70	7732-18-5	-	-	
Classification:	DSD:	_		231-791-2			
Classification.							
	CLP:	-					
1-(2-hydroxyethyl)-2-pyr	rolidone		< 10	3445-11-2	-	-	
				222-359-4			
Classification:	DSD:	-					
	CLP:	-					
Aliphatic diol			< 10	Proprietary	-	-	
Classification:	DSD:	-					
	CLP:	-					
2-pyrrolidone			< 5	616-45-5	-	-	
				210-483-1			
Classification:	DSD:	Xi;R36					
	CLP:	Eye Irri	t. 2;H31	19			
Substituted naphthalenes # 13	sulfonate	e salt	< 5	Proprietary -	-	-	
Classification:	DSD:	-					
	CLP:	_					

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.

1999/45/EC, as amended.

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

attention.

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at

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

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

and special treatment needed

Not available.

No notes to physicians. immediate medical attention

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing CO2, water, dry chemical, or foam

media

Unsuitable extinguishing None known.

media

Material name: CH645Series SDS UK

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective

Not available.

equipment for firefighters

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 6.3. Methods and material for

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

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

containment and cleaning up

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. 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 Not available. **Form** Not available.

Material name: CH645Series SDS UK

Color Yellow

Odor Not available. **Odor threshold** Not available. 7.1 - 7.7 pН Melting point/freezing point Not available.

Initial boiling point and

boiling range

Not determined

Flash point > 200.00 °F (> 93.33 °C) Setaflash Closed Tester

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.

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

VOC (Weight %) < 245 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous Will not occur.

reactions

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

11.1. Information on toxicological effects

Components **Test Results Species**

2-pyrrolidone (CAS 616-45-5)

Acute Oral

LD50 Guinea pig 6500 mg/kg

> Rat 6500 mg/kg

Material name: CH645Series SDS UK 4/8

Components Species Test Results Aliphatic diol (CAS Proprietary) **Acute** Dermal LD50 Rabbit > 10000 mg/kg Oral LD50 Rat 3730 mg/kg Other LD50 Mouse 1738 mg/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. Reproductive toxicity Not available. 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 LC50/96h/Fathead minnows => 750 mg/L

12.1. Toxicity

Components Test Results Species 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.

12.3. Bioaccumulative

potential

Not available.

Partition coefficient

12.5. Results of PBT

n-octanol/water (log Kow)

2-pyrrolidone -0.85Aliphatic diol -0.106

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available. **Contaminated packaging** Not available. **EU** waste code Not available.

Material name: CH645Series SDS UK

Disposal methods/information

Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental

Regulations.

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

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.

Material name: CH645Series SDS UK

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. 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.

H319 Causes serious eye irritation.

Revision information None.

Training information Not available.

Disclaimer This Safety D

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: CH645Series SDS UK

7/8

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: CH645Series SDS UK