

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

CH648Series

N/A

designation of the mixture

Registration number

Synonyms Matte Black Ink **Issue date** 04-Jul-2013

Version number 02

Revision date 02-Oct-2013 **Supersedes date** 04-Jul-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) 1-503-494-7199 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. Ingestion may result in nausea, vomiting and

diarrhea.

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, Ethyl alkyldiol, Sodium Hydroxide, Water

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

information

2.3. Other hazardsThis black 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: CH648Series SDS UK

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | | % | CAS-No. / EC No. | REACH Registration | No. Index No. | Note |
|------------------|------|-------------------|------------------------|--------------------|---------------|------|
| Water | | > 70 | 7732-18-5 231-791-2 | - | - | |
| Classification: | DSD: | - | | | | |
| | CLP: | - | | | | |
| 2-pyrrolidone | | < 15 | 616-45-5 210-483-1 | - | - | |
| Classification: | DSD: | Xi;R36 | | | | |
| | CLP: | Eye Irrit. 2;H319 | Ð | | | |
| 1,5-pentanediol | | < 2.5 | 111-29-5 203-854-4 | - | - | |
| Classification: | DSD: | - | | | | |
| | CLP: | - | | | | |
| Ethyl alkyldiol | | < 2.5 | Proprietary | - | - | |
| Classification: | DSD: | - | - | | | |
| | CLP: | | | | | |
| Sodium Hydroxide | | <0.1 | 1310-73-2 215-185-5 | - | 011-002-00-6 | |
| Classification: | DSD: | C;R35 | | | | |
| | CLP: | Skin Corr. 1A:H | 314, Aquatic Chronic 3 | 3;H412 | | |

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

Not available.

4.3. Indication of any immediate medical attention

and special treatment needed

No notes to physicians.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media

CO2, water, dry chemical, or foam

Material name: CH648Series SDS UK

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.

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

6.3. Methods and material for

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

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

incompatibilities

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 |
|----------------------------------|------|---------|
| Sodium Hydroxide (CAS 1310-73-2) | STEL | 2 mg/m3 |
| 1310-73-2) | | |

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

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

Material name: CH648Series SDS UK

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Not available. **Form** Not available.

Color Black.

Odor Not available. **Odor threshold** Not available.

9.2

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

boiling range

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

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 **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not determined **Decomposition temperature** Not available. Not applicable. **Viscosity Explosive properties** Not available. **Oxidizing properties** Not determined

9.2. Other information

Specific gravity 1 - 1.1VOC (Weight %) < 240 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.

Not available.

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

11.1. Information on toxicological effects

Acute toxicity

Symptoms

Material name: CH648Series 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 | |
| Sodium Hydroxide (CAS 1310-73-2 | 2) | | |
| Acute | | | |
| Other | | | |
| LD50 | Mouse | 40 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 | Not available. | | |
| Reproductive toxicity | Not available. | | |
| Specific target organ toxicity - single exposure | Not available. | | |
| Specific target organ toxicity - repeated exposure | Not available. | | |
| Aspiration hazard | Not available. | | |
| Mixture versus substance information | Not available. | | |
| 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

12.1. Toxicity

| Product | | Species | Test Results |
|-------------------------------------|----------------|---|------------------------------|
| CH648Series | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | > 750 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 |
| Ethyl alkyldiol (CAS Proprietary | y) | | |
| Crustacea | EC50 | Daphnia | 102, 48 Hours |
| Fish | LC50 | Fish | 1000, 96 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 10330 - 16360 mg/l, 48 hours |
| Fish | LC50 | Bleak (Alburnus alburnus) | > 10000 mg/l, 96 hours |
| Sodium Hydroxide (CAS 1310- | 73-2) | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) | 34.59 - 47.13 mg/l, 48 hours |
| Fish | LC50 | Western mosquitofish (Gambusia affinis) | 125 mg/l, 96 hours |
| 12.2. Persistence and degradability | Not available. | | |
| 12.3. Bioaccumulative potential | Not available. | | |

Material name: CH648Series SDS UK

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

methods/information 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

Material name: CH648Series 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

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. 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 R35 Causes severe burns.

R36 Irritating to eyes.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Revision information Ecological Information: Ecotoxicity

SECTION 12: Ecological information: Aquatic toxicity

Training information Not available.

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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: CH648Series 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)

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: CH648Series SDS UK