

## SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9450Series

designation of the mixture

**Registration number** N/A **Synonyms** None. **Issue date** 03-Jul-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.

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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. Ingestion may result in nausea, vomiting and

diarrhea. May cause sensitization of susceptible persons.

**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, Alkyldiol, Carbon black, Diethylene glycol, Triethanolamine, Water

Not available. R-phrase(s) 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. This gray 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 None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK,

NTP or OSHA.

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## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### **General information**

| Chemical name     |      | %                 | CAS-No. / EC No.         | REACH Registration No. | Index No.    | Notes |
|-------------------|------|-------------------|--------------------------|------------------------|--------------|-------|
| Water             |      | <80               | 7732-18-5<br>231-791-2   | -                      | -            |       |
| Classification:   | DSD: | -                 |                          |                        |              |       |
|                   | CLP: | -                 |                          |                        |              |       |
| 2-pyrrolidone     |      | <7.5              | 616-45-5<br>210-483-1    | -                      | -            |       |
| Classification:   | DSD: | Xi;R36            |                          |                        |              |       |
|                   | CLP: | Eye Irrit. 2;H319 | Ð                        |                        |              |       |
| Alkyldiol         |      | <5                | Proprietary<br>230-029-6 | -                      | -            |       |
| Classification:   | DSD: | Xi;R36/37/38      |                          |                        |              |       |
|                   | CLP: | Skin Irrit. 2;H31 | 5, Eye Irrit. 2;H319,    | STOT SE 3;H335         |              |       |
| Diethylene glycol |      | <5                | 111-46-6<br>203-872-2    | -                      | 603-140-00-6 |       |
| Classification:   | DSD: | Xn;R22            |                          |                        |              |       |
|                   | CLP: | Acute Tox. 4;H3   | 302                      |                        |              |       |
| Triethanolamine   |      | <1.5              | 102-71-6<br>203-049-8    | -                      | -            |       |
| Classification:   | DSD: | -                 |                          |                        |              |       |
|                   | CLP: | -                 |                          |                        |              |       |
| Carbon black      |      | <1                | 1333-86-4<br>215-609-9   | -                      | -            |       |
| Classification:   | DSD: | -                 |                          |                        |              |       |
| Classification:   |      |                   |                          |                        |              |       |

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.

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 material is ingested, immediately contact a physician or poison control center.

4.2. Most important symptoms and effects, both

acute and delayed

No notes to physicians.

4.3. Indication of any immediate medical attention

and special treatment

needed

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SECTION 5: Firefighting measures

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

CO2, water, dry chemical, or foam

media

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

Not available.

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. Remove and wash contaminated clothing before re-use.

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

7.2. Conditions for safe

oxidizers.

storage, including any 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     |  |
|-------------------------------------|------|-----------|--|
| Carbon black (CAS<br>1333-86-4)     | STEL | 7 mg/m3   |  |
|                                     | TWA  | 3.5 mg/m3 |  |
| Diethylene glycol (CAS<br>111-46-6) | TWA  | 101 mg/m3 |  |
| •                                   |      | 23 ppm    |  |
|                                     |      |           |  |

**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

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### 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 required under intended use.

Skin protection

- Hand protection Not available.

- Other Protected gloves not required under intended use.

**Respiratory protection** For use other than intended use (such as in the event of a large spill), goggles and respirators may

be required.

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.

Color Grey

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

pН 9.4

Melting point/freezing point Not available. 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. Soluble in water Solubility(ies) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not determined Not available. **Decomposition temperature Viscosity** Not applicable. **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. hydrogen fluoride, fluorinated hydrocarbons

## SECTION 11: Toxicological information

**General information** Not available.

Material name: C9450Series SDS UK

## Information on likely routes of exposure

IngestionNot available.InhalationNot available.Skin contactNot available.Eye contactNot available.SymptomsNot available.

## 11.1. Information on toxicological effects

| Components                        | Species        | Test Results  |
|-----------------------------------|----------------|---------------|
| 2-pyrrolidone (CAS 616-45-5)      |                |               |
| Acute                             |                |               |
| Oral                              |                |               |
| LD50                              | Guinea pig     | 6500 mg/kg    |
|                                   | Rat            | 6500 mg/kg    |
| Carbon black (CAS 1333-86-4)      |                |               |
| Acute                             |                |               |
| Oral                              | Det            |               |
| LD50                              | Rat            | > 8000 mg/kg  |
| Diethylene glycol (CAS 111-46-6   | o)             |               |
| Acute                             |                |               |
| <i>Dermal</i><br>LD50             | Rabbit         | 11890 mg/kg   |
|                                   | Rabbit         | 11090 Hig/kg  |
| <i>Oral</i><br>LD50               | Cat            | 3300 mg/kg    |
| 2000                              | Dog            | 9000 mg/kg    |
|                                   | Guinea pig     |               |
|                                   | динеа рід      | 8700 mg/kg    |
|                                   | ••             | 14 g/kg       |
|                                   | Mouse          | 23700 mg/kg   |
|                                   |                | 13.3 g/kg     |
|                                   | Rabbit         | 26.9 g/kg     |
|                                   | Rat            | 12565 mg/kg   |
|                                   |                | 15.6 g/kg     |
| Other                             |                |               |
| LD50                              | Mouse          | 22500 mg/kg   |
|                                   |                | 9.6 g/kg      |
|                                   | Rabbit         | 2000 mg/kg    |
|                                   | Rat            | 7700 mg/kg    |
|                                   |                | 7.7 g/kg      |
| Triethanolamine (CAS 102-71-6)    | )              |               |
| Acute                             |                |               |
| Dermal                            |                |               |
| LD50                              | Rabbit         | > 20000 mg/kg |
| Oral                              |                |               |
| LD50                              | Guinea pig     | 5300 mg/kg    |
|                                   | Rat            | 8 g/kg        |
| Other                             |                |               |
| LD50                              | Mouse          | 1450 mg/kg    |
| Skin corrosion/irritation         | Not available. |               |
| Serious eye damage/eye irritation | Not available. |               |
| Respiratory sensitization         | Not available. |               |
| Skin sensitization                | Not available. |               |

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Germ cell mutagenicity Not available.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group Carcinogenicity

> 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains

bound within a product matrix, specifically, rubber, ink, or paint.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not available. Specific target organ toxicity

Not available.

- single exposure

Specific target organ toxicity

Not available.

- repeated exposure

Not available. **Aspiration hazard** 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

**Test Results** Components Species

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

EC50 Crustacea Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

Diethylene glycol (CAS 111-46-6)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours

Triethanolamine (CAS 102-71-6)

**Aquatic** 

EC50 Crustacea Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 10610 - 13010 mg/l, 96 hours

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

potential

Not available.

**Partition coefficient** 

n-octanol/water (log Kow)

2-pyrrolidone -0.85Triethanolamine -1

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

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## **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.

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

Diethylene glycol (CAS 111-46-6)

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

Not regulated.

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**Other regulations**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

Not available. Not available.

**Assessment** 

## **SECTION 16: Other information**

**References** Not available.

Full text of any statements or R-phrases and H-statements

R22 Harmful if swallowed. R36 Irritating to eyes.

under Sections 2 to 15

R36/37/38 Irritating to eyes, respiratory system and skin.

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Revision information** 

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients Fire Fighting Measures: Fire & Explosion Properties

Physical & Chemical Properties: Physical & Chemical Properties 14. Transport Information: Material Transportation Information

15. Regulatory Information: United States

HazReg Data: Europe - EU

**Training information** 

Not available.

Disclaimer

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may not meet regulatory requirements in other countries.

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#### **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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