

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or

C9459Series

designation of the mixture

Registration number N/A **Synonyms** None. **Issue date** 04-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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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 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, Polymer 58-K salt, Polymer 683-K salt, Water

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

information

2.3. Other hazards This colorless 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: C9459Series SDS UK 1/7

General information

% CAS-No. / EC No. REACH Registration No. Index No. **Chemical name Notes** Water <90 7732-18-5 231-791-2 Classification: DSD: -CLP: -2-pyrrolidone <5 616-45-5 210-483-1 **Classification:** DSD: Xi;R36 **CLP:** Eye Irrit. 2;H319 Alkyldiol <5 Proprietary 230-029-6 Classification: **DSD:** Xi;R36/37/38 Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335 CLP: Polymer 58-K salt < 2.5 Classification: DSD: -CLP: Polymer 683-K salt <2.5

Classification: DSD: -

CLP: -

Composition comments This ink supply contains an aqueous ink formulation.

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 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.

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 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

CO2, water, dry chemical, or foam

media

Unsuitable extinguishing None known.

media

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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 Not

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

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

precautions

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. Store away from strong

oxidizers.

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: C9459Series SDS UK

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

92 pН

Melting point/freezing point

Initial boiling point and

boiling range

Not available. Not determined

Not applicable. 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.

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

decomposition products

General information

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

aldehydes, ketones

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure **Ingestion** Not available. Not available. **Inhalation** Not available. Skin contact **Eye contact** Not available. **Symptoms** Not available.

11.1. Information on toxicological effects

Species Components **Test Results**

2-pyrrolidone (CAS 616-45-5)

Acute

Oral

LD50 6500 mg/kg Guinea pig

> Rat 6500 mg/kg

Skin corrosion/irritation Not available.

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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 Mixture versus substance

Not available.

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

Aquatic toxicity LC50/96h/Fathead minnows => 750mg/L

12.1. Toxicity

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.

12.3. Bioaccumulative

potential

Not available.

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

12.6. Other adverse effects

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

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.

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.

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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

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

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

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

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 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 Not available. 15.2. Chemical Safety Not available.

Assessment

SECTION 16: Other information

References Not available.

Material name: C9459Series SDS UK 6/7

Full text of any statements or R36 Irritating to eyes.

R-phrases and H-statements

under Sections 2 to 15

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

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

Training information Not available.

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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

National Institute for Occupational Safety and Health **NIOSH**

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

TI V Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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