



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation C4908 Series

Use of the substance/preparation Inkjet printing

Version No. 03

Revision date 18-Oct-2012

CAS # Mixture

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2. HAZARDS IDENTIFICATION

Emergency Overview Contact with skin and eyes may result in irritation.

Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

Skin contact

1-(2-hydroxyethyl)-2-pyrrolidone
Contact with skin may result in irritation.

2-pyrrolidone
Contact with skin may result in irritation.

Aliphatic diol
Contact with skin may result in irritation.

Magenta pigment
Contact with skin may result in irritation.

Tetraethylene glycol
Contact with skin may result in irritation.

Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone
Contact with eyes may result in irritation.

2-pyrrolidone
Contact with eyes may result in irritation.

Aliphatic diol
Contact with eyes may result in irritation.

Magenta pigment
Contact with eyes may result in irritation.

Tetraethylene glycol
Contact with eyes may cause irritation.

Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone
Inhalation may result in respiratory irritation.

2-pyrrolidone
Inhalation may result in respiratory irritation.

Aliphatic diol
Inhalation may result in respiratory irritation.

Tetraethylene glycol
Inhalation may result in respiratory irritation.

Ingestion*1-(2-hydroxyethyl)-2-pyrrolidone*

Ingestion may result in nausea, vomiting and diarrhea.

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Potential health effects**Routes of exposure**

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

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Other information

This magenta ink is not classified according to EU Directive 1999/45/EC.

Classification

Not classified.

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 10	222-359-4	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi;R36/38
Aliphatic diol	Proprietary	< 5	Proprietary	
Magenta pigment	Proprietary	< 5	Proprietary	
Tetraethylene glycol	112-60-7	< 5	203-989-9	
Water	7732-18-5	> 65	231-791-2	

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.

4. 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.

General advice

No additional information

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**CO₂, water, dry chemical, or foam**Extinguishing media which must not be used for safety reasons**

None known.

Unusual fire & explosion hazards

Combustion generates toxic fumes of fluoride and/or fluorine compounds; phosphorus oxides.

Specific methods

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES**Containment procedures**

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.

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

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

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.
Storage Keep away from excessive heat or cold. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Switzerland Components	Type	Value
Tetraethylene glycol (112-60-7)	TWA	1000.0000 mg/m ³

Additional exposure data Exposure limits have not been established for this product.

Exposure controls Use in a well ventilated area.

Occupational exposure controls

Skin and body protection Not available.

General Use personal protective equipment to minimize exposure to skin and eye.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Not available.
Physical state Liquid
Form Not available.
Colour Magenta
Odour Not available.
Odour threshold Not available.
pH 8.7
Boiling point Not determined
Flash point 110 °C (230 °F) Setaflash Closed Tester US EPA Method 1020
Flammability limits in air, upper, % by volume Not available.
Flammability limits in air, lower, % by volume Not determined
Vapour pressure Not determined
Relative density Not available.
Solubility (water) Soluble in water
Partition coefficient (n-octanol/water) Not available
Viscosity 3 cP
Vapour density Not available.
Evaporation rate Not determined
Melting point Not available.
Freezing point Not available.
Auto-ignition temperature Not determined
Specific gravity 1
Other information For other VOC regulatory data/information see Section 15.

10. STABILITY AND REACTIVITY

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

Stability Stable under recommended storage conditions.

Materials to avoid Incompatible with strong bases and oxidizing agents.

Hazardous polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation Not available.

Further 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.

12. ECOLOGICAL INFORMATION

Aquatic toxicity This product has not been tested for ecological effects.

13. DISPOSAL CONSIDERATIONS

Disposal instructions 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>.

14. TRANSPORT INFORMATION

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains 1-(2-hydroxyethyl)-2-pyrrolidone, 2-pyrrolidone, Aliphatic diol, Magenta pigment, Tetraethylene glycol, Water

EC label This product does not require a label according to EU Directive 1999/45/EC.

Regulatory information The components of this product are reported in the following inventories: United States of America, European Union, Switzerland, Canada, Australia, Philippines, Korea, New Zealand and China.

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).

Switzerland VOC incentive tax - Contains >3% total VOCs but does not contain VOCs which are subject for taxation.

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3 R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

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

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This data sheet contains changes from the previous version in section(s): PHYSICAL AND CHEMICAL PROPERTIES: Other information
REGULATORY INFORMATION: Regulatory information
REGULATORY INFORMATION: Other information
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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: <value>	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds