



# SAFETY DATA SHEET

Issue date: 03-Oct-2013  
Revision date: 01-Sep-2015  
Version #: 03

## 1. Chemical and company identification

**Name of chemical (Product name)** C9442 Series

### Recommended use of the chemical and restrictions on use

**Intended use** Inkjet printing

**Company identification** HP Japan Inc.  
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Tokyo, Tokyo, Japan 136-8711  
Telephone (+81) 3 5628-1101

HP health effects line  
(Toll-free within the US) 1-800-457-4209  
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Email: hpcustomer.inquiries@hp.com  
Poison Information Centre 0120-50-3024

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## 2. Hazards identification

### GHS classification

The product is not classified according to GHS.

### GHS label elements

**Symbols** None.

**Signal words** None.

**Hazard statement** None.

### Precautionary statement

**Prevention** None.

**Response** None.

**Storage** None.

**Disposal** None.

**Other hazards** 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.

## 3. Composition/information on ingredients

**Substance or mixture** Mixture

Components	CAS #	Percent
Water	7732-18-5	70-80
2-pyrrolidone	616-45-5	<10
Diethylene glycol	111-46-6	<7.5
Alkyldiol	Proprietary	<5
Yellow pigment	Proprietary	<5

**Composition comments** This ink supply contains an aqueous ink formulation.

## 4. First aid measures

**If inhaled** Move to fresh air. If symptoms persist, get medical attention.

**If on skin** Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

<b>If in eyes</b>	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.
<b>If swallowed</b>	If material is ingested, immediately contact a physician or poison control center.

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## 5. Fire-fighting measures

<b>Flash point</b>	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Extinguishing media</b>	CO2, water, dry chemical, or foam
<b>Extinguishing media to avoid</b>	None known.
<b>Specific methods</b>	None established.

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## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency measures</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Methods or materials for containment and cleaning up</b>	Not available.

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## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation)</b>	Not available.
<b>Local and general ventilation</b>	Not available.
<b>Precautions</b>	Not available.
<b>Safe handling advice</b>	Avoid contact with skin, eyes and clothing.

### Storage

<b>Technical measures</b>	Keep out of the reach of children. Keep away from excessive heat or cold.
<b>Safe storage conditions</b>	Not available.
<b>Safe packaging materials</b>	Not available.

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## 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

### Recommended monitoring procedures

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

**Exposure guidelines** Exposure limits have not been established for this product.

**Engineering measures** Use in a well ventilated area.

### Personal protective equipment

<b>Respiratory protection</b>	For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.
<b>Hand protection</b>	Not available.
<b>Eye protection</b>	Not required under intended use.
<b>Skin and body protection</b>	Protected gloves not required under intended use.
<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.

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## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Not available.
<b>Color</b>	Yellow

**Odor** Not available.

**pH** 9.2

**Melting point/Freezing point** Not available.

**Boiling point, initial boiling point, and boiling range** Not determined

**Flash point** > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup

**Upper/lower flammability or explosive limits**

<b>Flammability limit - lower (%)</b>	Not determined
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.

**Vapor pressure** Not determined

**Evaporation rate** Not determined

**Solubility(ies)**

**Solubility (water)** Soluble in water

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not determined

**Decomposition temperature** Not available.

**Viscosity (Coefficient of viscosity)** Not available.

**Other information**

**Oxidizing properties** Not determined

**VOC (Weight %)** < 204 g/l

**10. Stability and reactivity**

**Reactivity** Not available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** Will not occur.

**Conditions to avoid** None.

**Incompatible materials** Incompatible with strong bases and oxidizing agents.

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

**11. Toxicological information**

**General information** Not available.

**Acute toxicity** Based on available data, the classification criteria are not met.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
2-pyrrolidone (CAS 616-45-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Diethylene glycol (CAS 111-46-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	11890 mg/kg
<i>Oral</i>		
LD50	Cat	3300 mg/kg
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
	Mouse	13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
<i>Other</i>		
LD50	Mouse	9.6 g/kg

Components	Species	Test Results
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.	
<b>Respiratory sensitizer</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitizer</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Toxic to reproduction</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Other information</b>	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.	

## 12. Ecological information

### Ecotoxicological data

Product	Species	Test Results
C9442 Series (CAS Mixture)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 750 mg/l, 96 hours

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 13.21 mg/l, 48 hours
Diethylene glycol (CAS 111-46-6)		
<b>Aquatic</b>		
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) > 32000 mg/l, 96 hours

**Persistence and degradability** Not available.

**Bioaccumulation** Not available.

#### Bioaccumulative potential

##### Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

**Mobility in soil** Not available.

**Hazardous to the ozone layer** Not available.

## 13. Disposal considerations

**Local disposal regulations** 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

### International regulations

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**Further information**

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

**15. Regulatory information****Poisonous and Deleterious Substances Control Act****Specified poisonous substances**

Not regulated.

**Poisonous substances**

Not regulated.

**Deleterious substances**

Not regulated.

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.****Class I specified chemical substances**

Not regulated.

**Class II specified chemical substances**

Not regulated.

**Monitoring chemical substances**

Not regulated.

**Priority Assessment Chemical Substances (PACs)**

Not regulated.

**Reporting Exempted Substances**

Not regulated.

**Industrial Safety and Health Act****Notifiable substances**

Not regulated.

**Labeling substances**

Not regulated.

**Law concerning Pollutant Release and Transfer Register****Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 1 substances (substance name, ordinance number and content)**

Not regulated.

**Class 2 substances (substance name, ordinance number and content)**

Not regulated.

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule**

Not regulated.

**Air Law, Enforcement Rule**

Not regulated.

**Explosives Control Act**

Not regulated.

**Act on Prevention of Marine Pollution and Maritime Disaster**

WATER

DIETHYLENE GLYCOL

Category: Other Substances

Category: Z

**Regulatory information**

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.

**16. Other information**

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

**This data sheet contains changes from the previous version in section(s):**

Hazards identification: Other hazards  
Other information: Disclaimer

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**Manufacturer information**

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Palo Alto, CA 94304-1112 US  
Direct 1-650-857-5020

**Explanation of abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EP CRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds