



SAFETY DATA SHEET

Issue date: 03-Oct-2013
Revision date: 09-Oct-2015
Version #: 04

1. Chemical and company identification

Name of chemical (Product name) C9441 Series

Recommended use of the chemical and restrictions on use

Intended use Inkjet printing

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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	60-70
2-pyrrolidone	616-45-5	<7.5
Diethylene glycol	111-46-6	<7.5
Alkyldiol	Proprietary	<5
Glycerol	56-81-5	<5
Pigment red	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.
If in eyes	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.
If swallowed	If material is ingested, immediately contact a physician or poison control center.

5. Fire-fighting measures

Flash point	> 230.0 °F (> 110.0 °C) Setaflash Closed Cup
Extinguishing media	CO2, water, dry chemical, or foam
Extinguishing media to avoid	None known.
Specific methods	None established.

6. Accidental release measures

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

7. Handling and storage

Handling

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

Storage

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

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

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

9. Physical and chemical properties

Appearance

Physical state	Not available.
Color	Magenta

Odor Not available.

pH 9.4

Melting point/Freezing point Not available.

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

Flash point > 230.0 °F (> 110.0 °C) Setaflash Closed Cup

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	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 %) < 241 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.

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
Acute		
<i>Oral</i>		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Diethylene glycol (CAS 111-46-6)		
Acute		
<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
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitizer	Based on available data, the classification criteria are not met.	
Skin sensitizer	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Toxic to reproduction	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Other information	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
C9441 Series (CAS Mixture)		
Aquatic		
<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)

Aquatic

Crustacea EC50 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

Glycerol (CAS 56-81-5)

Aquatic

Fish LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss) 51000 - 57000 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation Not available.

Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85
Glycerol -1.76

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

1,2,3-Propanetriol

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

Category: Other Substances

DIETHYLENE GLYCOL

Category: Z

GLYCEROL

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/NDL), 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.

Issue date 03-Oct-2013
Revision date 09-Oct-2015
Version number 04
Manufacturer information HP
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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