



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation C9445 Series

Version # 01

Product use Inkjet printing

Revision date 15-Nov-2011

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Product use Inkjet printing

2. HAZARDS IDENTIFICATION

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.

Acute health effects

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

Skin contact *2-pyrrolidone*
Contact with skin may result in irritation.

Alkyldiol
Contact with skin may result in irritation.

Eye contact *2-pyrrolidone*
Contact with eyes may result in irritation.

Alkyldiol
Contact with eyes may result in irritation.

Inhalation *2-pyrrolidone*
Inhalation may result in respiratory irritation.

Alkyldiol
Inhalation may result in respiratory irritation.

Ingestion *2-pyrrolidone*
Ingestion may result in nausea, vomiting and diarrhea.

Diethylene glycol
Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

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 green 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
Water	7732-18-5	70 - 80	231-791-2	
Diethylene glycol	111-46-6	5 - 7.5	203-872-2	Xn;R22
2-pyrrolidone	616-45-5	2.5 - 5	210-483-1	Xi;R36/38
Alkyldiol	Proprietary	2.5 - 5	Proprietary	
Triethanolamine	102-71-6	0 - 1	203-049-8	Xi;R36/38

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. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard). 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 material is ingested, immediately contact a physician or poison control centre.

5. FIRE-FIGHTING MEASURES

Flash point 93.3 °C (200 °F) Pensky-Martens Closed Cup
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 None known.
Specific methods None established.
Hazardous combustion products Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES

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. Remove and wash contaminated clothing before re-use.
Storage Keep out of the reach of children. Keep away from excessive heat or cold. Store away from strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Colombia

Components

Components	Type	Value
Triethanolamine (102-71-6)	TWA	5.0000 mg/m ³

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

Engineering measures Use in a well ventilated area.

Personal protective equipment

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 practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid
Form	Not available.
Color	Green
Odor	Not available.
Odour threshold	Not available.
pH	9.2
Boiling point	Not determined
Flash point	93.3 °C (200 °F) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Relative density	Not available.
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available
Viscosity	Not available.
Vapor density	Not available.
Evaporation rate	Not determined
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not determined
Specific gravity	1
VOC	Not available.

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. aldehydes, ketones, hydrogen fluoride, fluorinated hydrocarbons
Stability	Stable under recommended storage conditions.
Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous polymerization	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 aide measures.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	LC50/96h/Fathead minnows => 750mg/L
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose of in compliance with federal, state, and local 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 .
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14. TRANSPORT INFORMATION

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
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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** 2-pyrrolidone, Alkyldiol, Diethylene glycol, Triethanolamine, Water**EC Label** This product does not require a label according to EU Directive 1999/45/EC.**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**Wording of the R-phrases in sections 2 and 3**R22 Harmful if swallowed.
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.

Issue date

15-Nov-2011

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

TRANSPORT INFORMATION: Further information

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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