



SAFETY DATA SHEET

1. Identification of the dangerous substance/preparation and the identity of the manufacturer, importer, agent or marketer

Identification of the substance/preparation C9446 Series
Use of the substance/preparation Inkjet printing
Issue date 12-Mar-2015
Revision date 03-Oct-2015
Version # 02
CAS # Mixture
Company identification HP PPS Israel Ltd.
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2. Dangers of the dangerous substance/preparation

Physical hazards Not classified as a physical hazard.
Health hazards Not classified as a health hazard.
Environmental hazards Not classified as an environmental hazard.
GHS label elements
Signal word None.
Hazard symbols 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. Identification of the components of the substance/preparation

Components	CAS #	Percent
Water	7732-18-5	75-85
2-pyrrolidone	616-45-5	<7.5
Alkyldiol	Proprietary	<5
Glycerol	56-81-5	<5
Diethylene glycol	111-46-6	<2.5
Trade secret colorant	Proprietary	<2.5

Substance or Preparation Preparation

Composition comments This ink supply contains an aqueous ink formulation.

For the full text of the R phrases mentioned in this Section, see Section 16.

4. First aid instructions

First aid measures for different exposure routes

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 center.

Notes to physician Not available.

Special first aid equipment Not available.

5. Firefighting procedure

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

Extinguishing media

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 hazards during fire fighting Not available.

Special fire fighting procedures Not available.

Protection of fire-fighters Not available.

Specific methods None established.

Hazardous combustion products Refer to section 10.

6. Safety precautions

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.

Methods for cleaning up Not available.

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 out of the reach of children. Keep away from excessive heat or cold.

Storage

Special recommendations Not available.

Safe packaging materials Not available.

8. Means of reducing exposure and personal protection

Engineering measures to reduce exposure Use in a well ventilated area.

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

Biological limit values No biological exposure limits noted for the ingredient(s).

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

Personal protective equipment

Respiratory protection Not available.

Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Not available.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical state	Not available.
Color	Blue

Odor Not available.

pH 9.2

Melting point/freezing point Not available.

Initial boiling point and boiling range Not determined

Decomposition temperature Not available.

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

Flammability Not available.

Auto-ignition temperature Not determined

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.

Oxidizing properties Not determined

Vapor pressure Not determined

Solubility(ies)

Solubility (water) Soluble in water

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

Other information

Evaporation rate Not determined

Vapor density ≥ 1 (air=1.0)

VOC (Weight %) 136.8 g/l

10. Stability and reactivity

Conditions to avoid Not available.

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

Reactivity Not available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions Will not occur.

Incompatibility Incompatible with strong bases and oxidizing agents.

Materials to avoid Not available.

11. Toxicological information

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

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 or skin sensitization

Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	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.
Further 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.

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
	Rabbit	2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg

12. Environmental information

Ecotoxicity

Product	Species	Test Results
C9446 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 (<i>Daphnia pulex</i>) 13.21 mg/l, 48 hours
Diethylene glycol (CAS 111-46-6)		
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) > 32000 mg/l, 96 hours

Components	Species	Test Results
Glycerol (CAS 56-81-5)		
Aquatic		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Environmental effects	Not available.	
Persistence and degradability		
Aquatic toxicity	Not expected to be harmful to aquatic organisms.	
Mobility in soil	Not available.	

13. Dangerous substance disposal methods

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. Dispose of in compliance with Israeli Ministry of the Environment 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 .
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
Special precautions	Not available.

14. Transport information

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 regulated article under Israeli Transport Services Law and Regulation 1997, United States DOT, IATA, ADR, IMDG or RID. Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information

Israel regulations	
Israel. Harmful Chemicals (Hazardous Substances Law, 5753-1993, Annex 1, as amended)	Not listed.
Israel. Toxic Chemicals (Hazardous Substances Law, 5753-1993, Annex 2, as amended)	Not listed.
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.
Labeling	
Contains	2-pyrrolidone, Alkyldiol, Diethylene glycol, Glycerol, Trade secret colorant, Water
R-phrasе(s)	None.
S-phrasе(s)	None.

16. Other information

Recommended use	Not available.
Recommended restrictions	Not available.

Further information Not available.
Bibliography Not available.
Disclaimer 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.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R22 Harmful if swallowed.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.

Prepared by

HP

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Version #

02

Manufacturer 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	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds