



# 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** C9438 Series  
**Use of the substance/preparation** Inkjet printing  
**Issue date** 18-Mar-2015  
**Revision date** 09-Sep-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. Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

## 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
Glycerol	56-81-5	<7.5

Components	CAS #	Percent
Alkyldiol	Proprietary	<5
Diethylene glycol	111-46-6	<5
Carbon black	1333-86-4	<1

**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. Get medical attention if irritation develops or persists.  
**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.

**Notes to physician** Not available.

**Special first aid equipment** Not available.

## 5. Firefighting procedure

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

### Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular 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

**Israel. OELs (Labor Inspection Regs. (Occup. & Bio. Monitoring of those Working with Hazardous Materials), Appendix 2, 1990, as amended)**

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.

**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

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

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Not available.
<b>Color</b>	Grey, Dark Grey, Black.

**Odor** Not available.

**pH** 9.4

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not determined

**Decomposition temperature** Not available.

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

**Flammability** Not available.

**Auto-ignition temperature** Not determined

### 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.

**Oxidizing properties** Not determined

**Vapor pressure** Not determined

### Solubility(ies)

**Solubility (water)** Soluble in water

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

### Other information

<b>Evaporation rate</b>	Not determined
<b>Vapor density</b>	>= 1 (air=1.00)

VOC (Weight %)      >= 1 (air=1.00)  
                                 < 96 g/l

## 10. Stability and reactivity

<b>Conditions to avoid</b>	Not available.
<b>Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Will not occur.
<b>Incompatibility</b>	Incompatible with strong bases and oxidizing agents.
<b>Materials to avoid</b>	Not available.

## 11. Toxicological information

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<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 or skin sensitization</b>	
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.  Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</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>Further 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.

<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
Carbon black (CAS 1333-86-4)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 8000 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

Components	Species	Test Results
	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
C9438 Series (CAS Mixture)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) > 750 mg/l, 96 hours

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex) 13.21 mg/l, 48 hours
Diethylene glycol (CAS 111-46-6)		
<b>Aquatic</b>		
Fish	LC50	Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours
Glycerol (CAS 56-81-5)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 51000 - 57000 mg/l, 96 hours

**Environmental effects** Not available.

**Persistence and degradability**

**Mobility in soil** Not available.

## 13. Dangerous substance disposal methods

<b>Disposal instructions</b>	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 <a href="http://www.hp.com/recycle">http://www.hp.com/recycle</a> .
<b>Waste from residues / unused products</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>Special precautions</b>	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 dangerous good under DOT, IATA, ADR, IMDG, or RID. Not a regulated article under Israeli Transport Services Law and Regulation 1997, United States DOT, IATA, ADR, IMDG or RID.

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**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, Carbon black, Diethylene glycol, Glycerol, Water

**R-phrases(s)**

None.

**S-phrases(s)**

None.

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**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

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

Dangers of the dangerous substance/preparation: Other hazards  
Other information: Disclaimer

**Issue date**

18-Mar-2015

**Revision date**

09-Sep-2015

**Version #**

02

**Manufacturer information**

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**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>EPCRA</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