



# SAFETY DATA SHEET

## Section 1 - Identification

**Product identifier** C6602A  
**Other means of identification** None.  
**Recommended use of the chemical and restrictions on use**  
**Recommended use** Inkjet printing  
**Restrictions on use** Not available.

### Details of manufacturer or importer

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### HP Inc. health effects line

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## Section 2 - Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Sensitization, skin	Category 1
	Reproductive toxicity (fertility, the unborn child)	Category 1B
	Specific target organ toxicity, repeated exposure	Category 2 (kidney)

### Label elements, including precautionary statements

#### Hazard symbol(s)



Health hazard      Exclamation mark

**Signal word** Danger

**Hazard statement(s)** May cause an allergic skin reaction. May cause damage to organs (kidney) through prolonged or repeated exposure. May damage fertility or the unborn child.

#### Precautionary statement(s)

##### Prevention

Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe mist or vapor.

<b>Response</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Get medical attention/advice if you feel unwell. IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Storage</b>	Not available.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental information</b>	2-pyrrolidone: Specific Concentration Limits, Reproductive toxicity Category 1B, fertility or the unborn child 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.
<b>Other hazards which do not result in classification</b>	Potential routes of overexposure to this product are skin and eye contact. Inhalation and ingestion are not expected to be significant routes of exposure for this product during typical inkjet printing applications. Complete toxicity data are not available for this specific formulation.

### Section 3 - Composition and information on ingredients

#### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Water	7732-18-5	30-40
2-pyrrolidone	616-45-5	<30
Ethylene glycol	107-21-1	<25
Alkyldiol	Proprietary	<7.5
Food Black 2 acid salt # 3 Food Black 2 acid salt # 3	Proprietary	<5

<b>Composition comments</b>	This ink supply contains an aqueous ink formulation. This product was evaluated according to the criteria of the Australia Work Health and Safety Regulations (WHS Regulations). 2-pyrrolidone: Specific Concentration Limit 3%. Mixture classification threshold based on data related to developmental toxicity in animals. No adverse effects on sexual function or damage to fertility have been observed in an animal study. See Section 11.
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### Section 4 - First aid measures

#### Description of necessary first aid measures

<b>Inhalation</b>	Move to fresh air. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</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>Ingestion</b>	If ingestion of a large amount does occur, seek medical attention.
<b>Personal protection for first-aid responders</b>	Not available.
<b>Symptoms caused by exposure</b>	Not available.
<b>Medical attention and special treatment</b>	Not available.

### Section 5 - Firefighting measures

#### Extinguishing media

<b>Suitable extinguishing equipment</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing equipment</b>	None known.
<b>Specific hazards arising from the chemical</b>	Not available.
<b>Special protective equipment and precautions for firefighters</b>	Not available.
<b>Hazchem code</b>	None.

Specific methods None established.

## Section 6 - Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Wear appropriate personal protective equipment.

**For emergency responders** Not available.

**Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up** Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

**Other issues relating to spills and releases** 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.

## Section 7 - Handling and storage

**Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Keep away from excessive heat or cold.

## Section 8 - Exposure controls and personal protection

### Control parameters

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3
		40 ppm
	TWA	10 mg/m3 20 ppm

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	Vapor.	
		40 ppm	Vapor.	
	TWA		52 mg/m3	Vapor.
			10 mg/m3	Particulate.
			20 ppm	Vapor.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	Vapor.	
		40 ppm	Vapor.	
	TWA		52 mg/m3	Vapor.
			10 mg/m3	Particulate.
			20 ppm	Vapor.

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Ethylene glycol (CAS 107-21-1)	TWA	26 mg/m <sup>3</sup>	Vapor and aerosol.
		10 ppm	Vapor and aerosol.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	Exposure limits have not been established for this product.
<b>Control banding</b>	Not available.
<b>Engineering controls</b>	Use in a well ventilated area.
<b>Individual protection measures, such as personal protective equipment (PPE)</b>	
<b>Eye/face protection</b>	Not available.
<b>Skin protection</b>	
<b>Hand protection</b>	Recommended gloves: Nitrile 4 mil minimum thickness.
<b>Other</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Respiratory protection</b>	Not available.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## Section 9 - Physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>Color</b>	Black.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	7 - 7.4
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point and boiling range</b>	Not determined
<b>Flash point</b>	>200.0 °F (>93.3 °C) Closed Cup EPA Method 1020
<b>Evaporation rate</b>	Not determined
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower explosive limits</b>	
<b>Explosion limit - lower (%)</b>	Not determined
<b>Explosion limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Relative vapor density</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Soluble in water
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Particle characteristics</b>	Not available.
<b>Data relevant with regard to physical hazard classes</b>	No relevant additional information available.
<b>Other physical and chemical parameters</b>	
<b>Density</b>	1.04 g/cm <sup>3</sup>
<b>Percent volatile</b>	25 % estimated
<b>VOC</b>	<578 g/l Estimated

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## Section 10 - Stability and reactivity

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

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## Section 11 - Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	Inhalation may result in mild irritation to the respiratory system.
<b>Skin contact</b>	May cause sensitization by skin contact.
<b>Eye contact</b>	Contact with eyes may result in mild irritation.
<b>Ingestion</b>	Ingestion is not a likely route of exposure.
<b>Early onset symptoms related to exposure</b>	Not available.
<b>Delayed health effects from exposure</b>	Not available.
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met. LD50/oral/rat >2500 mg/kg (OECD 401).

Components	Species	Test Results
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2-pyrrolidone (CAS 616-45-5)

**Acute**

**Oral**

LD50

Rat

> 5000 mg/kg

Ethylene glycol (CAS 107-21-1)

**Acute**

**Oral**

LD50

Rat

4700 mg/kg

Sprague-Dawley rat

7712 mg/kg

Food Black 2 acid salt # 3

**Acute**

**Oral**

LD50

182 mg/kg

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.  
Non irritant in rabbit (OECD 404)

### Serious eye damage/irritation

Based on available data, the classification criteria are not met.  
Not classified as an irritant according to, OECD 405.

### Respiratory or skin sensitization

#### Respiratory sensitization

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

#### Skin sensitization

May cause sensitization by skin contact.

### Germ cell mutagenicity

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

### Carcinogenicity

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

#### ACGIH Carcinogens

Ethylene glycol (CAS 107-21-1)

A4 Not classifiable as a human carcinogen.

<b>Reproductive toxicity</b>	May damage fertility or the unborn child.  2-pyrrolidone: This component showed developmental effects only at high doses that were toxic to pregnant test animals (OECD Testing Guideline 414: Prenatal Developmental Toxicity Study). Uptake by people of small doses is not expected to cause developmental toxicity. This component has not caused adverse effects on sexual function or damage to fertility in an animal study (OECD Testing Guideline 443: Extended One-Generation Reproductive Toxicity Study).
<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>	May cause damage to organs (kidney) through prolonged or repeated exposure by ingestion.
Ethylene glycol	Adverse effects (kidneys) rat, oral (OECD 408)
<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.

## Section 12 - Ecological information

### Ecotoxicity

Product	Species	Test Results
C6602A		
<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>		
<i>Acute</i>		
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> ) 13.21 mg/l, 48 hours
Food Black 2 acid salt # 3		
<i>Acute</i>		
Other	EC50	<i>Pseudokirchnerella subcapitata</i> > 100 mg/l, 72 h
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	<i>Cyprinus carpio</i> > 1000 mg/l, 96 h

<b>Persistence and degradability</b>	Not available.
<b>Biodegradability</b>	
<b>Percent degradation (Aerobic biodegradation-ready)</b>	
Ethylene glycol	90 - 100 %, Readily biodegradable (OECD 301A)

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

2-pyrrolidone	-0.85
Ethylene glycol	-1.36 (25°C)
Food Black 2 acid salt # 3	-4.4

#### Bioconcentration factor (BCF)

Ethylene glycol	0.6
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<b>Mobility in soil</b>	Not available.
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#### Adsorption

##### Soil/sediment sorption - log Koc

Ethylene glycol	0, (PCKOCWIN v1.66)
Food Black 2 acid salt # 3	0.528

<b>Other adverse effects</b>	Not available.
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## Section 13 - Disposal considerations

<b>Disposal methods</b>	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.
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## Section 14 - Transport information

<b>DOT</b>	
<b>UN number</b>	Not regulated as dangerous goods.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not assigned.
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Not assigned.
<b>IATA</b>	
<b>UN number</b>	Not regulated as dangerous goods.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not assigned
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned
<b>Environmental hazards</b>	No
<b>Special precautions for user</b>	Not assigned
<b>IMDG</b>	
<b>UN number</b>	Not regulated as dangerous goods.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not assigned.
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not assigned.
<b>Transport hazard class(es)</b>	
<b>Marine pollutant</b>	No
<b>EmS</b>	Not assigned.
<b>Special precautions for user</b>	Not assigned.
<b>ADR</b>	
<b>UN number</b>	Not regulated as dangerous goods.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not assigned
<b>Subsidiary risk</b>	-
<b>Hazard No. (ADR)</b>	Not assigned
<b>Tunnel restriction code</b>	Not assigned
<b>Packing group</b>	Not assigned
<b>Environmental hazards</b>	No
<b>Soocial precautions for user</b>	Not assigned
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

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## Section 15 - Regulatory information

### Safety, health and environmental regulations

#### National regulations

##### Australia Medicines & Poisons Appendix E

Ethylene glycol (CAS 107-21-1)

**Australia Medicines & Poisons Schedule 10**

Ethylene glycol (CAS 107-21-1)

**Australia Medicines & Poisons Schedule 5**

Ethylene glycol (CAS 107-21-1)

**Australia Medicines & Poisons Schedule 6**

Ethylene glycol (CAS 107-21-1)

**Australia National Pollutant Inventory (NPI): Threshold quantity**

Ethylene glycol (CAS 107-21-1)

10 TONNES/YR Threshold Category: 1

**High Volume Industrial Chemicals (HVIC)**

Ethylene glycol (CAS 107-21-1)

10000 - 99999 TONNES See the regulation for additional information.

Water (CAS 7732-18-5)

1000 - 9999 TONNES See the regulation for additional information.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Not listed.

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**International regulations**

HP complies with chemical regulatory requirements in chemical substance notification laws, where applicable. All chemical substances are notified or exempt from notification or listed in the inventory as existing substances in the following countries: US (TSCA), Canada (DSL/NDSL), Australia (AICIS), Japan (ISHL, ENCS), Philippines (PICCS), New Zealand (NZIoC) and China (IECSC). For guidance on importation and/or additional requirements for registration schemes such as EAEU, EU, South Korea, Turkey, UK, India and Taiwan, please contact the Sustainability and Compliance Center ([sustainability@hp.com](mailto:sustainability@hp.com)).

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

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**Section 16 - Any other relevant information****Issue date**

31-Dec-2018

**Revision date**

17-Aug-2023

**Other information**

This SDS was prepared in compliance with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets", 2003.



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**Revision information**

1. Product and Company Identification: Alternate Trade Names  
Section 2 - Hazard(s) identification: Other hazards which do not result in classification

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>Acute Tox.</b>	Acute toxicity
<b>Aquatic Acute</b>	Short-term (acute) aquatic hazard
<b>Aquatic Chronic</b>	Long-term (chronic) aquatic hazard
<b>Asp. Tox.</b>	Aspiration hazard
<b>Carc.</b>	Carcinogenicity
<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>Eye Dam.</b>	Serious eye damage
<b>Eye Irrit.</b>	Eye Irritation
<b>Flam. Liq.</b>	Flammable liquids
<b>Flam. Sol.</b>	Flammable solids
<b>Lact.</b>	Effects on or via lactation
<b>Muta.</b>	Germ cell mutagenicity
<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>Ox. Liq.</b>	Oxidising liquids
<b>Ozone</b>	Hazardous to the ozone layer
<b>PEL</b>	Permissible Exposure Limit
<b>Press. Gas</b>	Gases under pressure
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>Repr.</b>	Reproductive toxicity
<b>Resp. Sens.</b>	Respiratory sensitization
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>Skin Corr.</b>	Skin corrosion
<b>Skin Irrit.</b>	Skin irritation
<b>Skin Sens.</b>	Skin sensitization
<b>STEL</b>	Short-Term Exposure Limit
<b>STOT RE</b>	Specific target organ toxicity - repeated exposure
<b>STOT SE</b>	Specific target organ toxicity - single exposure
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act