

# SAFETY DATA SHEET

### 1. Identification

Product identifier 51600B Rev B

Other means of identification None.

Recommended use of the chemical and restrictions on use

**Recommended use** Inkjet printing **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

HP Singapore (Private) Limited

1 Depot Close Singapore, 109841

**Telephone** 62753888

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048

**HP Inc. Customer Care** 

Line

(Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

### 2. Hazards identification

**GHS** classification

Physical hazards Not classified.

Health hazards Sensitization, skin

Reproductive toxicity (fertility, the unborn

child)

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

GHS label elements, including precautionary statements

**Pictograms** 



Signal word Danger

Hazard statements 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** 

**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

Category 1

Category 1B

Category 2 (kidney)

breathe mist or vapor.

**Response** 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.

Storage Not available.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

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.

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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.

## 3. Composition/information on ingredients

#### Substance or mixture

Mixture

Chemical name	Common name and synonyms	CAS Number	Concentration (%)
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

#### Composition comments

This ink supply contains an aqueous ink formulation.

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.

#### 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. 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.

Most important

treatment needed

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

Not available.

Not available.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Not available

Not available.

Special protective equipment

and precautions for firefighters

Specific methods

None established.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

Dry chemical, CO2, water spray or regular foam.

**Environmental precautions** Methods and materials for containment and cleaning up Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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.

### 7. Handling and storage

Precautions for safe handling Conditions for safe storage, including any incompatibilities Avoid contact with skin, eyes and clothing.

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

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### 8. Exposure controls/personal protection

### Occupational exposure limits

Singapore. PELs. (Workplace Safety and Health (Permissible Exposure Levels of Toxic Substances) Order)

Components Type Value

Ethylene glycol (CAS STEL 127 mg/m3

107-21-1)

50 ppm

#### Control parameters/Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

ComponentsTypeValueFormEthylene glycol (CAS<br/>107-21-1)Ceiling100 mg/m3Aerosol.

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

Appropriate engineering

control measures

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Not available.

Skin protection

**Hand protection** Recommended gloves: Nitrile 4 mil minimum thickness.

Other Use personal protective equipment to minimize exposure to skin and eye.

Respiratory protection Not available.

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Appearance Liquid.
Physical state Liquid.

Form Not available.

Color Black.

Odor Not available.
Odor threshold Not available.

**pH** 7 - 7.4

Melting point/freezing point Not available.

Initial boiling point and boiling Not determined

range

Flash point > 200.0 °F (> 93.3 °C) Closed Cup EPA Method 1020

Not determined **Evaporation rate** Not available. Flammability (solid, gas) Not determined Flammability limit - lower (%) Flammability limit - upper (%) Not available. Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available.

Solubility(ies)

Solubility (water) Soluble in water

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other data

Percent volatile 25 % estimated VOC < 578 g/l Estimated

10. Stability and reactivity

Reactivity Not available.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Not available

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.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Inhalation may result in mild irritation to the respiratory system.

Skin contactMay cause sensitization by skin contact.Eye contactContact with eyes may result in mild irritation.IngestionIngestion is not a likely route of exposure.

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

LD50/oral/rat >2500 mg/kg (OECD 401).

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

<u>Acute</u>

Oral

LD50 Rat > 5000 mg/kg

Ethylene glycol (CAS 107-21-1)

**Acute** 

**Dermal** 

LD50 Rabbit 9530 mg/kg

Inhalation

Aerosol

LC50 Rat > 2.5 mg/l, 6 Hours

Other

LD50 Rat 2800 mg/kg

Symptoms Not available.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Non irritant in rabbit (OECD 404)

Serious eye damage/eye

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.

**Reproductive toxicity** 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).

Specific target organ toxicity -

single exposure

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

Specific target organ toxicity -

repeated exposure

May cause damage to organs (kidney) through prolonged or repeated exposure by ingestion.

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

Chronic effects Not available.

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

**Ecotoxicity** 

Product Species Test Results

51600B Rev B Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 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

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85 Ethylene glycol -1.36

Mobility in soilNot available.Other adverse effectsNot available.

## 13. Disposal considerations

**Disposal methods/information** 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.

Special precautions Not available.

## 14. Transport information

DOT

UN number Not available.
UN proper shipping name Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk -

Packing group Not available.

**Environmental hazards** 

Marine pollutant No

Special precautions for user Not available.

**IATA** 

UN number Not available.
UN proper shipping name Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk -

Packing group Not available.

Environmental hazards No

Special precautions for user Not available.

**IMDG** 

UN number Not available.
UN proper shipping name Not Regulated

Transport hazard class(es)

Class Not available.

Subsidiary risk -

Packing group Not available.

Transport hazard class(es)

Marine pollutant No Not available.

EmS Not available. Special precautions for user Not available.

**ADR** 

UN number Not available.
UN proper shipping name Not Regulated

Transport hazard class(es)

Not available. Class

Subsidiary risk

Not available. Hazard No. (ADR) **Tunnel restriction code** Not available. Not available. Packing group

**Environmental hazards** 

Special precautions for user Not available.

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. **Further information** 

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

## 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

**Chemical Weapons Prohibition (Act)** 

Not applicable.

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule)

Not regulated.

**Environmental Protection and Management (Hazardous Substances) Regulations** 

Not applicable.

**Environmental Public Health Act** 

Not applicable.

Prior Informed Consent (PIC) Substances (Environment Protection and Management Act, 2nd Schedule, Part 1, Jul. 1,

2013)

Not regulated.

International regulations 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.

**Montreal Protocol** 

Not applicable.

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

### 16. Other information

Not available. References

Issued by

HP Inc. Company name

Prepared by HP Inc.

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#### Disclaimer

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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