

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

C6602A

Product use Inkjet printing

Version # 05

Revision date 07-Jan-2013 **CAS #** Mixture

Company identification Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-1501

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 HP 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

Emergency overview

Contact with skin and eyes may result in irritation.

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.

Food Black 2 acid salt #3

This product may cause an allergic skin reaction.

Eye contact *2-pyrrolidone*

Contact with eyes may result in irritation.

Alkylalol

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.

Ethylene glycol

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

system.

Food Black 2 acid salt #3 Toxic if swallowed.

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

Material name: C6602A MSDS US

Chronic health effects Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization

reaction.

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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Water	7732-18-5	< 40
2-pyrrolidone	616-45-5	< 30
Alkyldiol	Proprietary	< 7.5
Ethylene glycol	107-21-1	< 25
Food Black 2 acid salt #3	Proprietary	< 5

Composition comments This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. First Aid Measures

First aid procedures

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.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Inhalation Remove to fresh air. If symptoms persist, get medical attention. **Ingestion** If ingestion of a large amount does occur, seek medical attention.

General advice No additional information

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Specific methods **Hazardous combustion**

products

None established. 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.

Methods for containment 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.

Methods for cleaning up

Soak up with inert absorbent material.

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.

Material name: C6602A MSDS US

9429 Version #: 05 Revision date: 07-Jan-2013 Print date: 07-Jan-2013

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

Components **Type** Value **Form** Ethylene glycol (107-21-1) 100.0000 mg/m3 Ceiling Aerosol.

U.S. - Tennessee

Value Components **Type** Ethylene glycol (107-21-1) 50.0000 ppm Ceiling 125.0000 mg/m3

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

Engineering controls Use in a well ventilated area.

Personal protective equipment

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

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

9. Physical & Chemical Properties

Appearance Not available. Color Not available. Odor Not available. Not available. **Odor threshold Physical state** Liquid

Not available. **Form** 7 - 7.4 pН

Melting point Not available. Freezing point Not available. **Boiling point** Not determined

338 - 347 °F (170 - 175 °C) Closed Cup Flash point

Evaporation rate Not determined Flammability limits in air, Not available. upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Not determined Vapor pressure Not available. Vapor density

1 - 1.2Specific gravity

Relative density Not available. Solubility (water) Soluble in water **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** > 2 cp

VOC Not available.

Other information For other VOC regulatory data/information see section 15.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions. Incompatible with strong bases and oxidizing agents. **Incompatible materials**

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

Material name: C6602A MSDS US

9429 Version #: 05 Revision date: 07-Jan-2013 Print date: 07-Jan-2013

Possibility of hazardous reactions

Will not occur.

11. Toxicological Information

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

Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Carcinogenicity

ACGIH Carcinogens

Ethylene glycol (CAS 107-21-1) A4 Not classifiable as a human carcinogen.

Acute toxicity Non- irritant in rabbit (OECD 404)

Not classified for dermal irritation according to EU Directive 67/548/EEC and 1999/45/EC.

Serious eye damage/eye

irritation

Non - irritant in rabbit (OECD 405)

Sensitization Sensitizer in guinea pig (OECD 406)

Repeated contact may cause allergic reactions in very susceptible persons.

Symptoms and target organs Target Organs (NIOSH)

Ethylene glycol (CAS 107-21-1) Central Nervous System

Eyes

Respiratory system

Skin

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.

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows => 750 mg/L

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

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

DOT

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

US federal regulations US TSCA 12(b): Does not contain listed chemicals.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Ethylene glycol (CAS 107-21-1) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Ethylene glycol (CAS 107-21-1) Listed.

Material name: C6602A MSDS US

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

No

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

No

chemical

State regulations

US - New Jersey Community RTK (EHS Survey): Listed substance

Ethylene glycol (CAS 107-21-1) Substance no. 0878

US - New Jersey RTK - Substances: Listed substance

Ethylene glycol (CAS 107-21-1) Listed.

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5) Ethylene glycol (CAS 107-21-1)

US. New Jersey Worker and Community Right-to-Know Act

Ethylene glycol (CAS 107-21-1) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

2-pyrrolidone (CAS 616-45-5) Listed. Ethylene glycol (CAS 107-21-1) Listed.

US. Rhode Island RTK

Ethylene glycol (CAS 107-21-1)

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.

Contains Food Black 2 acid salt

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29)

CFR 1910.1200).

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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 07-Jan-2013

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

Composition / Information on Ingredients: Disclosure Overrides

9. Physical & Chemical Properties: Other information 14. Transport Information: Further information

Material name: C6602A MSDS US

9429 Version #: 05 Revision date: 07-Jan-2013 Print date: 07-Jan-2013

Manufacturer information Hewlett-Packard Company

3000 Hanover Street

Palo Alto, California 94304-1112 US

(Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

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

Material name: C6602A MSDS US