## 1. Chemical Product and Company Identification

**Material name** 51604A Original Use of the preparation Inkjet printing

Version #

**Revision date** 27-Mar-2008 CAS# Mixture

Manufacturer information **Hewlett-Packard Company** 

> 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

**Hewlett-Packard health effects line** 

(Toll-free within the US) 1-800-457-4209 1-503-494-7199 (Direct)

**General information telephone number** 

**HP Customer Care Line** 1-800-474-6836 (Toll-free) 1-800-474-6836 1-208-323-2551 (Direct) **Date prepared** Mar 26, 2008

#### 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

Food Black 2 acid salt # 3

This product may cause an allergic skin reaction.

Triethylene glycol

Contact with skin may result in irritation.

**Eye contact** 

Triethylene glycol

Contact with eyes may cause irritation.

**Ingestion** 

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

**Chronic health effects** None known.

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.

Material name 51604A ORIGINAL Creation date Apr 30, 2003 Version number 4 1/6



3.	Composition	/ Information on	Ingredients
•	COLLIDOSICIOLI	, 111101111411011 011	11191 CUICIIC

Component/substance	CAS number	% by weight
Water	7732-18-5	> 40
Ethylene glycol	107-21-1	< 40
Triethylene glycol	112-27-6	< 15
Food Black 2 acid salt # 3	Proprietary	< 5
Composition comments	This ink supply contains an aqueous ink form This product has been evaluated using criteri 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.

## 5. Fire Fighting Measures

Flash point and method > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

**Hazardous combustion** 

products

Refer to section 10.

Flammable properties None known.

**Extinguishing media** 

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting

procedures

None established.

### 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

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.

Soak up with inert absorbent material.

## 7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Material name 51604A ORIGINAL Creation date Apr 30, 2003 Version number 4 2/6



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

## 8. Exposure Controls/Personal Protection

### **Exposure limits**

**ACGIH** 

CAS# **TWA STEL** Components Ceiling Ethylene glycol 107-21-1 Not established Not established 100 mg/m3

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

Personal protective equipment

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

Eye / face protection Not required under intended use.

Skin protection Protected gloves not required under intended use.

For use other than intended use (such as in the event of a large spill), goggles and respirators **Respiratory protection** 

may be required.

**General hygeine** considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

Color Black

**Odor threshold** Not available

**Physical state** Liquid. рH 7.7 - 8.3

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

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

**Evaporation rate** Not determined **Flammability** Not available. Flammability limits in air, Not available

upper, % by volume

Not determined

Flammability limits in air, lower, % by volume

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density Not available Soluble in water Solubility in water **Partition coefficient** Not available

(n-octanol/water)

Not available **Auto-ignition temperature** Not available **Decomposition temperature** VOC < 3 %

Material name 51604A ORIGINAL MSDS US Creation date Apr 30, 2003 Version number 4 3 / 6



**Viscosity** > 2 cp

10. Chemical Stability & Reactivity Information

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

**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.

**Possibility of hazardous** 

reactions

Will not occur.

11. Toxicological Information

**Oral toxicity** LD50/oral/rat >2000 mg/kg (OECD 423)

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

Non-sensitizer in guinea pig (OECD 406) (OECD 406) **Sensitization** 

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Ethylene glycol 107-21-1 respiratory system, skin, eyes, CNS

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. Transportation Information

**Department of Transportation (DOT) Requirements** 

Not regulated as hazardous goods.

**IATA** 

Proper shipping name Not applicable **Hazard class** Not applicable

**UN number** None **Packing group** N/A **Packaging exceptions** None

15. Regulatory Information

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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

1.0 % de minimis concentration Ethylene glycol 107-21-1

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

107-21-1 5000 lb final RQ; 2270 kg final RQ Ethylene glycol

**CERCLA (Superfund) reportable quantity** 

None

Material name 51604A ORIGINAL Creation date Apr 30, 2003 Version number 4 4/6

## 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

chemical

No

**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.

#### State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Ethylene glycol 107-21-1 Environmental hazard

U.S. - Pennsylvania - RTK (Right to Know) List

Triethylene glycol 112-27-6 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Ethylene glycol 107-21-1 sn 0878

U.S. - New Jersey - Right to Know Hazardous Substance List

Triethylene glycol 112-27-6 sn 2079

#### 16. Other Information

**HMIS**® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

**Issue date** Mar 26 2008 8:48PM

Revision 3

Replaces sheet dated Jan 9 2006 10:41PM

**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.

**MSDS sections updated** 3. Hazards Identification: Routes of exposure

8. Exposure Controls/Personal Protection: Respiratory

11. Toxicological Information: Sensitization

Material name 51604A ORIGINAL MSDS US

Creation date Apr 30, 2003

5 / 6

#### **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

MSDS US