

. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the

C6657A

preparation

Use of the preparation

Inkjet printing

Selectability number

57

Manufacturer information

Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US)

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Revision date

12-12-2004

MSDS number

15251

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/Substance	CAS Number	% By Weight
Cyan ink		70 by Weight
Water 1,5-pentanediol	7732-18-5	< 70
	111-29-5	< 10
Ethyl alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 7.5
Metal nitrate #2 Alkyldiol ethoxylate Substituted phthalocyanine salt #2 Ammonium nitrate	Proprietary	< 7.5
	Proprietary	< 2.5
	Proprietary	< 2.5
	6484-52-2	< 2.5
Magenta ink		2.0
Water 1,5-pentanediol Ethyl alkyldiol 2-pyrrolidone	7732-18-5	- 70
	111-29-5	< 70
	Proprietary	< 10
	616-45-5	< 7.5
Metal nitrate #2	Proprietary	< 7.5
Alkyldiol ethoxylate Amino alkyldiol Ammonium nitrate		< 7.5
	Proprietary	< 2.5
	Proprietary	< 2.5
	6484-52-2	< 2.5





Component/Substance	CAS Number	% By Weight
Yellow ink		76 By Weight
Water 1,5-pentanediol Ethyl alkyldiol 2-pyrrolidone Metal nitrate #2 Alkyldiol ethoxylate Ammonium nitrate	7732-18-5 111-29-5 Proprietary 616-45-5 Proprietary Proprietary 6484-52-2	< 70 < 10 < 7.5 < 7.5 < 7.5
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).	

3. HAZARDS IDENTIFICATION

Emergency Overview	Contact with skin and eyes may result in irritation.
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Acute Health Effects

Any potential hazards are presumed to be due to exposure to the components.

Skin contact

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Amino alkyldiol

Contact with skin may result in irritation.

Ammonium nitrate

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate #2

Contact with skin may result in irritation.

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Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Amino alkyldiol

Contact with eyes may result in irritation.

Ammonium nitrate

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate #2

Contact with eyes may result in irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Amino alkyldiol

Inhalation may result in respiratory irritation.

Ammonium nitrate

Inhalation may result in respiratory irritation.

Metal nitrate #2

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Ammonium nitrate

Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate #2

Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt #2

Harmful 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 Cyan ink:

Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious

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.

4. FIRST AID MEASURES

First aid procedures

Eye 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 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.

IRE FIGHTING MEASURES

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

Hazardous combustion

products

Refer to section 10.

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.

Procedures if material is released or spilled

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.

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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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values Exposure limits have not been established for this product.

Personal protective equipment

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Exposure guidelines Use in a well ventilated area.

9. PHYSICAL & CHEMICAL PROPERTIES

рН 6.5 - 8.75

Vapor pressure Not determined **Boiling point** Not determined Solubility Soluble in water

Specific gravity 1 - 1.2VOC content < 3 %

Flash point > 93.3 °C (> 200 °F)

Viscosity > 2 cp

Vapor density > 1 (air = 1.0)**Evaporation rate** Not determined Flammability Not determined

Color Cyan, magenta, yellow

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable under recommended storage conditions.

Hazardous polymerization Will not occur.

Hazardous decomposition

products

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

monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Incompatibility Incompatible with strong bases and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

This ink formulation has not been tested for toxicological effects.

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

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ECOLOGICAL INFORMATION

Aquatic toxicity

Cyan ink

LC50/96h/Fathead minnows =< 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%

Magenta ink

LC50/96h/Fathead minnows =< 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%

Yellow ink

LC50/96h/Fathead minnows =< 400 mg/L

Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%

13. DISPOSAL CONSIDERATIONS

Disposal instructions

Dispose of in compliance with federal, state, 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

http://www.hp.com/recycle.

TRANSPORTATION INFORMATION

General

Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA

Proper shipping name

Hazard class

Not applicable Not applicable

Special precautions

None

Packaging exceptions

Identification number

None None

(UN)

Packing group

N/A

15. REGULATORY INFORMATION

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.

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US federal regulations

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

HMIS ratings

Flammability Classification Reactivity 0

NFPA ratings Health

Flammability Classification 1

Reactivity 0

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 Extremely Hazardous Substance

No

Section 311 Hazardous

No

Chemical

Hazard categories Immediate Hazard - No

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

Reactivity Hazard - No

16. OTHER INFORMATION

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications

regulation (29 CFR 1910.1200).

Issue date 12-12-2004

Revision

Replaces sheet dated 10-06-2004

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

Chemical Product and Company Identification: Alternate Trade Names - SKU Numbers

Composition / Information on Ingredients: Ingredient Extensions

Fire Fighting Measures: Fire & Explosion Properties Physical & Chemical Properties: Material Properties

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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)

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

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