

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

51644C

Use of the preparation

Inkjet printing

CAS#

Mixture

Company identification

Hewlett-Packard Bulgaria Business Center EXPO 2000

Vaptzarov Blvd. Sofia 1407, Bulgaria Telephone +359 2 960-1941

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: hpcustomerinquiries@hp.com Poison Information Centre telephone number

2. HAZARDS IDENTIFICATION

Classification R52/53

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.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate #2

Contact with skin may result in irritation.

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.

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.

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.

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 Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to

health.

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.

Physical hazards Not classified as a physical hazard.

Health hazards Not classified as a health hazard.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Other information This cyan ink is classified for environmental effects according to EU Directive 1999/45/EC with

R52/53

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component/substance	CAS number	% by weight	EU number	EU classification
Water	7732-18-5	< 70	231-791-2	
1,5-pentanediol	111-29-5	< 10	203-854-4	
2-pyrrolidone	616-45-5	< 7.5	210-483-1	Xi, R36/38
Ethyl alkyldiol	Proprietary	< 7.5	Proprietary	
Metal nitrate #2	Proprietary	< 7.5	Proprietary	Xi, O, R36/37/38, 8
Substituted phthalocyanine salt #2	Proprietary	< 2.5	Proprietary	Xn, N, R22, 48/22, 51/53

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). The components of this product have been evaluated in accordance with the hazard criteria of the Canada Controlled Products Regulations. This product was evaluated according to the criteria of the National Occupational Health and Safety Commission (NOHSC) Australia. This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.

specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended. For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Inhalation Remove 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.

5. FIRE-FIGHTING MEASURES

Flash point and method > 93.3 °C (> 200 °F); Pensky-Martens Closed Cup Suitable extinguishing media Dry chemical, CO2, water spray or regular foam.

Material name51644CSDS BulgariaCreation date30-Apr-2003Version number 42 / 6



Extinguishing media which

must not be used for safety

reasons

None known.

None known.

hazards

Hazardous combustion

Unusual fire & explosion

products

Refer to section 10.

Specific methods 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 cleaning up Soak up with inert absorbent material.

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, **Containment procedures**

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional exposure data Exposure limits have not been established for this product.

Personal protective equipment

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

may be required.

Eye protection Not required under intended use.

General Use personal protective equipment to minimize exposure to skin and eye. Handle in accordance with good industrial hygiene and safety practice. Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Not available. **Appearance**

Physical state Liquid.

Not available. **Form**

Color Cyan

Odor Not available. **Odour threshold** Not available. 7.8 - 8.6

Not determined **Boiling point**

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

Flammability Not available. Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Not determined Vapor pressure Not available. Relative density Soluble in water Solubility (water) Not available. Partition coefficient

(n-octanol/water)

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Viscosity > 2 cp

Vapor density > 1 (air = 1.0)Not determined **Evaporation rate Melting point** Not available. Not available. Freezing point **Auto-ignition temperature** Not available.

1 - 1.2 Specific gravity VOC < 3 %

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions. Materials to avoid 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.

Will not occur. Hazardous polymerization

11. TOXICOLOGICAL INFORMATION

This ink formulation has not been tested for toxicological effects. **Further information**

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

12. ECOLOGICAL INFORMATION

LC50/96h/Fathead minnows =400 mg/L **Aquatic toxicity**

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.

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

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

UN number None N/A Packing group None Packaging exceptions None Packaging non bulk Labels required None

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

article under Israeli Transport Services Law and Regulation 1997, United States DOT, IATA,

ADR, IMDG or RID.

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15. REGULATORY INFORMATION

All chemical substances in this HP product have been notified or are exempt from notification International regulations

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.

Labeling

Contains 1,5-pentanediol, 2-pyrrolidone, Ethyl alkyldiol, Metal nitrate #2, Substituted phthalocyanine

salt #2, Water

R-phrase(s) R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S-phrase(s) S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

16. OTHER INFORMATION

Manufacturer information Hewlett-Packard Company

> 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199

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

R8 Contact with combustible material may cause fire. List of relevant R phrases

R21/22 Harmful in contact with skin and if swallowed.

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by

2001/58/EC.

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

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Section 1 above and may not meet regulatory requirements in other countries.

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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