

1. Product and Company Identification

Material name 51644M

Use of the preparation Inkjet printing

Version # 04

Revision date 17-May-2009
CAS # Mixture

Product use Inkjet printing

Company identification Hewlett-Packard Company

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United States

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Date prepared May 16, 2009

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 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.

Substituted napthalenesulfonate salt #10

May cause sensitization by skin contact.

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. Substituted napthalenesulfonate salt #10

Risk of serious damage to eyes.

Material name 51644M MSDS US

Creation date Apr 30, 2003 Version number 4 1 / 6



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.

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.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	< 70
1,5-pentanediol	111-29-5	< 10
2-pyrrolidone	616-45-5	< 7.5
Ethyl alkyldiol	Proprietary	< 7.5
Metal nitrate # 2	Proprietary	< 7.5
Substituted napthalenesulfonate salt #10	Proprietary	< 2.5

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.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf 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 Refer to section 10.

products

Flammable properties None known.

Extinguishing media

Suitable extinguishing Dry chemical, CO2, water spray or regular foam.

media

Unsuitable extinguishing None known.

media

Material name 51644M MSDS US

Creation date Apr 30, 2003 Version number 4 2 / 6



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.

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.

8. Exposure Controls / Personal Protection

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.

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

may be required.

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Magenta
Odor threshold Not available.

Physical state Liquid. pH 6 - 7.4

Melting pointNot available.Freezing pointNot available.Boiling pointNot determined

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

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

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

Specific gravity 1 - 1.2

Relative density Not available.

Solubility (water) Soluble in water

Material name 51644M MSDS US

Creation date Apr 30, 2003 Version number 4 3 / 6



Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC < 3 % 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

n

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

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

products

Will not occur.

11. Toxicological Information

Toxicological informationComplete toxicity data are not available for this specific formulation

Eye irritation Mild irritant in rabbit (OECD 405)

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

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =512 mg/L

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

Persistence and degradability Not available.

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

IATA

Proper shipping name Not applicable Hazard class Not applicable

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

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

15. Regulatory Information

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

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

Metal nitrate # 2 (Proprietary) 1.0 % N511

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

Metal nitrate # 2 (Proprietary) N511 Listed.

Material name 51644M MSDS US

Creation date Apr 30, 2003 Version number 4 4 / 6

CERCLA (Superfund) reportable quantity

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

Nο

Section 311 hazardous

chemical

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

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

Metal nitrate # 2 (Proprietary) Substance no. 3722

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Metal nitrate # 2 (Proprietary) 500 LBS US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed. Metal nitrate # 2 (Proprietary) Listed.

16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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Revision

May 15 2009 8:35PM Replaces sheet dated

Manufacturer information Hewlett-Packard Company

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

(29 CFR 1910.1200).

This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Disclaimer

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.

Material name 51644M MSDS US Version number 4



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 51644M MSDS US

Creation date Apr 30, 2003 Version number 4 6 / 6