

IFD 82 69ml Yellow Ink Cartridge

1. Product and Company Identification

Material name

C4913A

Use of the preparation

Inkjet printing

Version #

05

Revision date

02-16-2009

CAS#

Mixture

Company identification

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Date prepared

Feb 16, 2009

2. Hazards Identification

Emergency overview Acute health effects Contact with skin and eyes may result in irritation.

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.

Alkyldicarboxylic acid

Contact with skin may result in irritation.

Tetraethylene glycol

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.

Alkyldicarboxylic acid

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

Tetraethylene glycol

Contact with eyes may cause irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldicarboxylic acid

Inhalation may result in respiratory irritation.

Tetraethylene glycol

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Alkyldicarboxylic acid

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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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	< 80
1,5-pentanediol	111-29-5	< 20
2-pyrrolidone	616-45-5	< 10
Alkyldicarboxylic acid	Proprietary	< 10
Substituted napthalenesulfonate salt #7	Proprietary	< 2.5
Tetraethylene glycol	112-60-7	< 2.5
	nk supply contains an aqueous ink formu product has been evaluated using criteria	ulation. a specified in 29 CFR 1910.1200 (Hazard

Communication Standard).

4. First Aid Measures

First aid procedures

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for Eye contact

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

Soak up with inert absorbent material.

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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

Avoid contact with skin, eyes and clothing. Handling

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

8. Exposure Controls / Personal Protection

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

Personal protective equipment

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

Handle in accordance with good industrial hygiene and safety practice. General hygeine

considerations

9. Physical & Chemical Properties

Yellow Color

Not available. **Odor threshold**

Liquid. Physical state

3.8 - 4.2pН

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

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

Not determined

Not determined **Evaporation rate** Not available. **Flammability** Not available.

Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined Vapor pressure

> 1 (air = 1.0)Vapor density

1 - 1.2Specific gravity Not available. Relative density Soluble in water

Solubility (water) Partition coefficient Not available. (n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available.

< 3 % VOC > 2 cp **Viscosity**

10. Chemical Stability & Reactivity Information

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

Incompatible materials

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

carbon dioxide and/or low molecular weight hydrocarbons. products

Possibility of hazardous Will not occur.

reactions

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11. Toxicological Information

Not available.

12. Ecological Information

Aquatic toxicity

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%

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 None

Labels required

NOILE

General

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

15. Regulatory Information

US federal regulations

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

CERCLA (Superfund) reportable quantity

None

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. 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 - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5)

Listed.

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16. Other Information

Health: 1 **HMIS®** ratings

Flammability: 0

Physical hazard: 0

Health: 1 **NFPA** ratings

Flammability: 0 Instability: 0

Feb 16 2009 4:43AM Issue date

Revision

Feb 5 2009 4:42PM Replaces sheet dated

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

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS **Chemical Abstracts Service**

Comprehensive Environmental Response Compensation and Liability Act **CERCLA**

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

Emergency Planning and Community Right-to-Know Act (aka SARA) **EPCRA**

IARC International Agency for Research on Cancer

National Institute for Occupational Safety and Health NIOSH

NTP National Toxicology Program

Occupational Safety and Health Administration **OSHA**

Permissible Exposure Limit PEL

Resource Conservation and Recovery Act **RCRA**

REC Recommended

Recommended Exposure Limit **REL**

Superfund Amendments and Reauthorization Act of 1986 **SARA**

STEL Short-Term Exposure Limit

Toxicity Characteristics Leaching Procedure **TCLP**

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds Hewlett-Packard Company

Manufacturer information

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