



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the preparation C5019Series

Product use Inkjet printing

Version # 03

Revision date 11-Oct-2011

CAS # Mixture

Company identification Hewlett-Packard Company
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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

2-pyrrolidone

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Azonaphthalenesulfonate salt #1

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Substituted naphthalenesulfonate salt #9

Contact with eyes may result in serious damage and irreversible eye coloration.

Risk of serious damage to eyes.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

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

| Components | CAS # | Percent |
|--|-------------|---------|
| Water | 7732-18-5 | 70 - 80 |
| Ethyl alkyldiol | Proprietary | 10 - 15 |
| 2-pyrrolidone | 616-45-5 | 2.5 - 5 |
| Azonaphthalenesulfonate salt #1 | Proprietary | 1 - 2.5 |
| Substituted naphthalenesulfonate salt #9 | Proprietary | 1 - 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.
- 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

Flammable properties None known.

Extinguishing media

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

Unsuitable extinguishing media None known.

Specific methods None established.

Hazardous combustion products Refer to section 10.

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.

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

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.

Engineering controls Use in a well ventilated area.

Personal protective equipment

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

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

9. Physical & Chemical Properties

| | |
|---|---|
| Appearance | Not available. |
| Color | Not available. |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| pH | 7.5 |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not determined |
| Flash point | 200 °F (93.3 °C) Setafash closed-cup tester |
| Evaporation rate | Not determined |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |
| Vapor density | Not available. |
| Specific gravity | 1 |
| Relative density | Not available. |
| Solubility (water) | Soluble in water |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 2 cp |
| VOC | < 3 % |

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

| | |
|--|---|
| Serious eye damage/eye irritation | Non irritant in rabbit (OECD 405) |
| Further information | Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures. |

12. Ecological Information

| | |
|--------------------------------------|--|
| Ecotoxicity | EC50: > 100 mg/l, Algae, 72.00 hr EC50: > 100 mg/l, Daphnia, 48.00 hr NOEC: 100 mg/l, Algae, 72.00 hr NOEC: 100 mg/l, Daphnia, 48.00 hr Information given is based on data on the components and the ecotoxicology of similar products |
| Aquatic toxicity | LC50/96h/Fathead minnows = /< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 97% 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

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory Information

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

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5) Listed.

Regulatory information 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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings Health: 1
Flammability: 2
Physical hazard: 0

NFPA ratings Health: 1
Flammability: 2
Instability: 0

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.

Issue date 11-Oct-2011
This data sheet contains changes from the previous version in section(s): Product and Company Identification: Alternate Trade Names
Hazards Identification: Other information
Composition / Information on Ingredients: Ingredients
11. Toxicological Information: Further information
Ecological Information: Ecotoxicity
12. Ecological Information: Ecotoxicity
14. Transport Information: General
14. Transport Information: Further information
Regulatory Information: Safety Phrases

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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 |