



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name B3P24Series
Version # 04
Issue date 29-Jan-2013
Revision date 08-Jun-2013
Supersedes date 04-Jun-2013
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.
Other hazards 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.

3. Composition / Information on Ingredients

| Hazardous components | CAS # | Percent |
|--|-------------|---------|
| 2-pyrrolidone | 616-45-5 | < 7.5 |
| Non-hazardous components | CAS # | Percent |
| Water | 7732-18-5 | > 70 |
| 1-(2-hydroxyethyl)-2-pyrrolidone | 3445-11-2 | < 10 |
| Aliphatic diol | Proprietary | < 10 |
| Substituted naphthalenesulfonate salt #9 | Proprietary | < 1% |

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

General advice No information
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. If irritation persists get medical attention.
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 | CO2, water, dry chemical, or foam |
| Unsuitable extinguishing media | None known. |
| Fire fighting equipment/instructions | Not available. |
| 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 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

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value |
|----------------------------------|------|----------|
| 1,6-hexanediol (CAS Proprietary) | TWA | 10 mg/m3 |

| | |
|---------------------------------------|---|
| Exposure guidelines | Exposure limits have not been established for this product. |
| Engineering controls | Use in a well ventilated area. |
| Personal protective equipment | |
| General | Use personal protective equipment to minimize exposure to skin and eye. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical & Chemical Properties

| | |
|-------------------------------------|---|
| Appearance | Not available. |
| Physical state | Not available. |
| Form | Not available. |
| Color | Grey. |
| Odor | Not available. |
| pH | 7.5 - 8.5 |
| Vapor pressure | Not available. |
| Boiling point | Not determined |
| Melting point/Freezing point | Not determined |
| Solubility (water) | Soluble in water |
| Specific gravity | 1 - 1.2 |
| Flash point | >= 200.00 °F (>= 93.33 °C) Setaflash Closed Tester |
| VOC | < 266 g/l |
| Other information | For other VOC regulatory data/information see Section 15. |

10. Chemical Stability & Reactivity Information

| | |
|---|---|
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | No information available |
| 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

Toxicological data

| Components | Species | Test Results |
|--|--|---------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 6500 mg/kg |
| | Rat | 6500 mg/kg |
| Aliphatic diol (CAS Proprietary) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 10000 mg/kg |
| <i>Oral</i> | | |
| LD50 | Rat | 3730 mg/kg |
| <i>Other</i> | | |
| LD50 | Mouse | 1738 mg/kg |
| Serious eye damage/eye irritation | Not available. | |
| Further information | This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures. | |

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows => 750 mg/L

Ecotoxicological data

| Components | Species | Test Results |
|--|----------------|-------------------------------------|
| 2-pyrrolidone (CAS 616-45-5) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (<i>Daphnia pulex</i>) |
| | | 13.21 mg/l, 48 hours |
| Persistence and degradability | Not available. | |
| Bioaccumulation / Accumulation | | |
| Bioaccumulative potential | | |
| Octanol/water partition coefficient log Kow | | |
| 2-pyrrolidone | | -0.85 |
| Aliphatic diol | | -0.106 |
| Partition coefficient | | |
| 2-pyrrolidone | | -0.85 |
| Aliphatic diol | | -0.106 |

13. Disposal Considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies.
Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

Further information

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

15. Regulatory Information

US federal regulations

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Other information

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).
VOC content (less water, less exempt compounds) = < 1419 g/L (U.S. requirement, not for emissions)
VOC data based on formulation (Organic compounds minus solids)

Other 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 - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-DIOXANE (CAS 123-91-1)

Listed: January 1, 1988 Carcinogenic.

ETHYLENE OXIDE (CAS 75-21-8) Listed: July 1, 1987 Carcinogenic.
US - California Proposition 65 - CRT: Listed date/Developmental toxin
ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009 Developmental toxin.
US - California Proposition 65 - CRT: Listed date/Female reproductive toxin
ETHYLENE OXIDE (CAS 75-21-8) Listed: February 27, 1987 Female reproductive toxin.
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin
ETHYLENE OXIDE (CAS 75-21-8) Listed: August 7, 2009 Male reproductive toxin.
US. Massachusetts RTK - Substance List
2-pyrrolidone (CAS 616-45-5)
US. Pennsylvania RTK - Hazardous Substances
2-pyrrolidone (CAS 616-45-5) Listed.
US. Rhode Island RTK
Not regulated.

16. Other Information

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

NFPA ratings Health: 1
Flammability: 1
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.

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

Issue date 29-Jan-2013

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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 |