1. Identification

Product identifier: B3F23Series
Other means of identification:
- Synonyms: HP 4041 Black
- Recommended use: Inkjet printing
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States
Telephone: 650-857-1501
HP Inc. health effects line:
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Inc. Customer Care Line:
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Not classified.

Physical hazards:
- Category 2: Serious eye damage/eye irritation

Health hazards:
- Category 2: Specific target organ toxicity, repeated exposure

Environmental hazards:
- Category 3: Hazardous to the aquatic environment, long-term hazard

OSHA defined hazards:
- Not classified.

Signal word: Warning

Hazard statement:
Causes serious eye irritation. May cause damage to organs (kidney) through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Precautionary statement:

Prevention:
Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Avoid release to the environment.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical attention/advice if you feel unwell.

Storage:
Not available.

Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)  
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.

GHS Supplemental information  
None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td></td>
<td>7732-18-5</td>
<td>&lt;80</td>
</tr>
<tr>
<td>Lactam*</td>
<td>Proprietary*</td>
<td>&lt;20</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td></td>
<td>107-21-1</td>
<td>&lt;7.5</td>
</tr>
<tr>
<td>Amine*</td>
<td>Proprietary*</td>
<td>&lt;2</td>
<td></td>
</tr>
<tr>
<td>Black dye*</td>
<td>Proprietary*</td>
<td>&lt;1</td>
<td></td>
</tr>
</tbody>
</table>

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

Inhalation  
Move 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.

Most important symptoms/effects, acute and delayed  
Not available.

5. Fire-fighting measures

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

Unsuitable extinguishing media  
None known.

Specific hazards arising from the chemical  
None known.

Special protective equipment and precautions for firefighters  
Not available.

Specific methods  
None established.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures  
Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up  
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.

Environmental precautions  
Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

7. Handling and storage

Precautions for safe handling  
Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities  
Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure controls/personal protection

Occupational exposure limits  
This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

Biological limit values  
No biological exposure limits noted for the ingredient(s).

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

Appropriate engineering controls  
Use in a well ventilated area.
Individual protection measures, such as personal protective equipment

<table>
<thead>
<tr>
<th>Protection</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td></td>
</tr>
<tr>
<td>Skin protection</td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Respiratory protection</td>
<td></td>
</tr>
<tr>
<td>Thermal hazards</td>
<td></td>
</tr>
</tbody>
</table>

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

9. Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Not available.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Black.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>9 - 11</td>
</tr>
<tr>
<td>Melting point/freezing</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and</td>
<td>Not available.</td>
</tr>
<tr>
<td>boiling range</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 212.0 °F (&gt; 100.0 °C) Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Upper/lower flammability or explosive limits

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - lower</td>
<td>Not available.</td>
</tr>
<tr>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - upper</td>
<td>Not available.</td>
</tr>
<tr>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Explosive limit - lower</td>
<td>Not available.</td>
</tr>
<tr>
<td>(%)</td>
<td></td>
</tr>
<tr>
<td>Explosive limit - upper</td>
<td>Not available.</td>
</tr>
<tr>
<td>(%)</td>
<td></td>
</tr>
</tbody>
</table>

Vapor pressure
Not determined

Vapor density
Not available.

Solubility(ies)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility (water)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Auto-ignition temperature
> 392 °F (> 200 °C)

Decomposition temperature
Not available.

Viscosity
Not available.

Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>VOC</td>
<td>252 g/L</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity
Not available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Will not occur.

Conditions to avoid
Not 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.
11. Toxicological information

Information on likely routes of exposure

- **Inhalation**
  Inhalation may result in mild irritation to the respiratory system.

- **Skin contact**
  Contact with skin may result in mild irritation.

- **Eye contact**
  Causes serious eye irritation.

- **Ingestion**
  Ingestion is not a likely route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

- **Acute toxicity**
  Based on available data, the classification criteria are not met.

- **Skin corrosion/irritation**
  Based on available data, the classification criteria are not met.

- **Serious eye damage/eye irritation**
  Causes serious eye irritation.

- **Respiratory or skin sensitization**
  Based on available data, the classification criteria are not met.

  - **Respiratory sensitization**
    Based on available data, the classification criteria are not met.

  - **Skin sensitization**
    Based on available data, the classification criteria are not met.

- **Germ cell mutagenicity**
  Based on available data, the classification criteria are not met.

- **Carcinogenicity**
  IARC Monographs. Overall Evaluation of Carcinogenicity
  Not listed.

  OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
  Not regulated.

  US. National Toxicsity Program (NTP) Report on Carcinogens
  Not listed.

- **Reproductive toxicity**
  Based on available data, the classification criteria are not met.

- **Specific target organ toxicity - single exposure**
  Based on available data, the classification criteria are not met.

- **Specific target organ toxicity - repeated exposure**
  May cause damage to organs (kidney) through prolonged or repeated exposure by ingestion.

- **Aspiration hazard**
  Based on available data, the classification criteria are not met.

Further information

Complete toxicity data are not available for this specific formulation.

12. Ecological information

- **Ecotoxicity**
  No ecotoxicity data noted for the ingredient(s).

- **Persistence and degradability**
  Not available.

- **Bioaccumulative potential**
  Not available.

- **Mobility in soil**
  Not available.

- **Other adverse effects**
  Not available.

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.
Not regulated as dangerous goods.

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>US TSCA 12(b): Does not contain listed chemicals.</td>
<td></td>
</tr>
<tr>
<td>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>CERCLA Hazardous Substance List (40 CFR 302.4)</td>
<td>Not listed.</td>
</tr>
<tr>
<td>SARA 304 Emergency release notification</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Delayed Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard - No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 302 Extremely hazardous substance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not listed</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA 311/312 Hazardous chemical</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
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</tbody>
</table>

Other federal regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Safe Drinking Water Act (SDWA)</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

US state regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

Other information

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC content (less water, less exempt compounds) = g/L (U.S. requirement, not for emissions)</td>
<td>VOC data based on formulation (Organic compounds minus solids)</td>
</tr>
</tbody>
</table>

Regulatory information

The components of this product are reported in the following inventories: United States of America, European Union, Canada and Ontario.

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Date/Version Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue date</td>
</tr>
<tr>
<td>Revision date</td>
</tr>
<tr>
<td>Version #</td>
</tr>
<tr>
<td>Other information</td>
</tr>
</tbody>
</table>
Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

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