1. Product and Company Identification

Identification of the preparation | CN053Series
---|---
Product use | Inkjet printing
Version # | 01
Revision date | 12-Jan-2012
CAS # | Mixture
Company identification | Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-1501
Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview | Contact with skin and eyes may result in irritation. Do not breathe Vapor.

Acute health effects

Skin contact | 2-pyrrolidone
Contact with skin may result in irritation.
Co-Solvent
Contact with skin may result in irritation.

Eye contact | 2-pyrrolidone
Contact with eyes may result in irritation.
Co-Solvent
Contact with eyes may result in irritation.

Inhalation | Avoid breathing vapors or mists of this product.
2-pyrrolidone
Inhalation may result in respiratory irritation.
Co-Solvent
Inhalation may result in respiratory irritation.

Ingestion | 2-pyrrolidone
Ingestion may result in nausea, vomiting and diarrhea.
Co-Solvent
Swallowing large amounts may cause digestive discomfort.

Potential health effects

Routes of exposure | Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

Chronic health effects | None known.
Carcinogenicity | Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk.
None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-pyrrolidine</td>
<td>616-45-5</td>
<td>&lt; 15</td>
</tr>
<tr>
<td>Carbon Black Colorant</td>
<td>1333-86-4</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Co-Solvent</td>
<td>Proprietary</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt; 70</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).

Carbon black is present only in a bound form in this preparation.

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
For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

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

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black Colorant (1333-86-4)</td>
<td>TWA</td>
<td>3.0000 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>
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**: Black.
**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 available.
**Flash point**: > 230 °F (> 110 °C) Pensky-Martens Closed Cup
**Evaporation rate**: Not available.
**Flammability limits in air, upper, % by volume**: Not available.
**Flammability limits in air, lower, % by volume**: Not available.
**Vapor pressure**: Not available.
**Vapor density**: Not available.
**Specific gravity**: Not available.
**Relative density**: Not available.
**Solubility (water)**: Not available.
**Auto-ignition temperature**: Not available.
**Decomposition temperature**: Not available.
**VOC**: < 229 g/L

**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**

**Carcinogenicity**: Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.

**IARC Monographs: Evidence of carcinogenicity in humans**
- Carbon Black Colorant (CAS 1333-86-4): Inadequate data.
- **IARC Monographs: Overall evaluation**
- Carbon Black Colorant (CAS 1333-86-4): 2B Possibly carcinogenic to humans.
US ACGIH Threshold Limit Values: A3 carcinogen
Carbon Black Colorant (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to humans.

Acute toxicity
No information available.

Serious eye damage/eye irritation
Not available.

Symptoms and target organs
Target Organs (NIOSH)
- Carbon Black Colorant (CAS 1333-86-4) Eyes
- Respiratory system

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
Ecotoxicity
This product has not been tested for ecological effects.

Aquatic toxicity
This product has not been tested for ecological effects.

Persistence and degradability
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
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 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
No

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
State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5) Listed.
Carbon Black Colorant (CAS 1333-86-4) Listed.

Regulatory information Contains components not listed in: Canada, Japan, Korea, New Zealand and Ontario

Other information VOC content (less water, less exempt compounds) = < 884 g/L (U.S. requirement, not for emissions)

16. Other Information

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

HMIS® ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
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</tbody>
</table>

NFPA ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>

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 12-Jan-2012

Manufacturer information Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

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