



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation CN045Series

Use of the Substance/Preparation Inkjet printing

Version # 01

Revision date 05-Jan-2012

CAS # Mixture

Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

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
Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

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

Acute health effects

Skin contact Any potential hazards are presumed to be due to exposure to the components.
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 vapours 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.

Complete toxicity data are not available for this specific formulation

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.

Classification Not classified.

Physical hazards Not classified as a physical hazard.

Health hazards Not classified as a health hazard.

Environmental hazards

Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS # | Percent | EC-No. | Classification |
|---------------|-------------|----------|-------------|----------------|
| 2-pyrrolidone | 616-45-5 | 10 - 15 | 210-483-1 | Xi;R36/38 |
| Co-Solvent | Proprietary | 7.5 - 10 | Proprietary | |
| Carbon black | 1333-86-4 | 2.5 - 5 | 215-609-9 | |
| Water | 7732-18-5 | > 70 | 231-791-2 | |

Composition comments

This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.
For the full text of the R phrases mentioned in this Section, see Section 16.

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

4. FIRST AID MEASURES**Inhalation**

Remove 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.

5. FIRE-FIGHTING MEASURES**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.

Extinguishing media which must not be used for safety reasons

None known.

Unusual fire & explosion hazards

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.

Containment procedures

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 limit values****United Kingdom****Components**

Carbon black (1333-86-4)

TypeSTEL
TWA**Value**7.0000 mg/m3
3.5000 mg/m3**Additional exposure data**

Exposure limits have not been established for this product.

Exposure controls

Use in a well ventilated area.

Occupational exposure controls**General**

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance | Not available. |
| Physical state | Liquid |
| Form | Not available. |
| Color | Black. |
| Odor | Not available. |
| Odour threshold | Not available. |
| pH | 7.5 |
| Boiling point | Not available. |
| Flash point | > 110 °C (> 230 °F) Pensky-Martens Closed Cup |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Relative density | Not available. |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available |
| Viscosity | Not available. |
| Vapor density | Not available. |
| Evaporation rate | Not available. |
| Melting point | Not available. |
| Freezing point | Not available. |
| Auto-ignition temperature | Not available. |
| VOC | < 229 g/l |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| Stability | Stable under recommended storage conditions. |
| Materials to avoid | Incompatible with strong bases and oxidizing agents. |
| Hazardous polymerization | 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. |
| Acute toxicity | No information available. |
| 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

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

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.

ADR

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

Labeling

Contains 2-pyrrolidone, Carbon black, Co-Solvent, Water

EC Label This product does not require a label according to EU Directive 1999/45/EC.

S-phrases(s) S24/25 Avoid contact with skin and eyes.

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

16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3 R36/38 Irritating to eyes and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

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 05-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 |