

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Identification of the

preparation

CN045Series

Product use Inkiet printing

Version # 01

Revision date 07-Dec-2011 CAS# Mixture

Company identification Hewlett-Packard Company

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United States

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(Direct) 1-503-494-7199 **HP Customer Care Line**

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2. Hazards Identification

Emergency overview

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

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.

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-pvrrolidone

Inhalation may result in respiratory irritation.

Co-Solvent

Inhalation may result in respiratory irritation.

Ingestion 2-pvrrolidone

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.

Material name: CN045Series MSDS US

CAS#	Percent	
616-45-5	10 - 15	
Proprietary	7.5 - 10	
1333-86-4	2.5 - 5	
7732-18-5	> 70	
	616-45-5 Proprietary 1333-86-4	616-45-5 10 - 15 Proprietary 7.5 - 10 1333-86-4 2.5 - 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).

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.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Unavitable sytimusiabina

Unsuitable 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.

None known.

Specific methods
Hazardous combustion

products

None established. 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

Other information

Soak up with inert absorbent material.

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

ACGIH

Components	Туре	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	

Material name: CN045Series MSDS US

U.S. - Tennessee

 Components
 Type
 Value

 Carbon black (1333-86-4)
 TWA
 3.5000 mg/m3

Exposure quidelines 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 pointNot available.Freezing pointNot available.Boiling pointNot available.

Flash point > 230 °F (> 110 °C) Pensky-Martens Closed Cup

Evaporation rateNot available. **Flammability limits in air,**Not available.

upper, % by volume

Flammability limits in air, lower, % by volume

Not available.

Not available. Vapor pressure Vapor density Not available. Not available. Specific gravity Not available. Relative density Not available. Solubility (water) Not available. **Auto-ignition temperature 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.

ACGIH Carcinogens

Carbon black (CAS 1333-86-4) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Material name: CN045Series MSDS US

IARC Monographs: Evidence of carcinogenicity in humans

Carbon black (CAS 1333-86-4) Inadequate data.

Acute toxicity No information available.

Serious eye damage/eye

irritation

Not available.

Symptoms and target organs Target Organs (NIOSH)

Carbon black (CAS 1333-86-4) Eye

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

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 No

hazardous chemical

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

No

chemical

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

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

Material name: CN045Series

MSDS US

Carbon black (CAS 1333-86-4)

Listed.

Regulatory information

Other information

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

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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

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