

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Identification of the

preparation

CN045Series

**Product use** Inkiet printing

Version # 01

**Revision date** 04-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

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 1/5

3. Composition / Information on Ingredients			
Components	CAS #	Percent	
2-pyrrolidone	616-45-5	10 - 15	
Co-Solvent	Proprietary	7.5 - 10	
Carbon black	1333-86-4	2.5 - 5	
Water	7732-18-5	> 70	

**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

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at Eye contact

least 15 minutes or until particles are removed. If irritation persists get medical attention.

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.

Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation Skin contact

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

**Unsuitable extinguishing** 

media

None known.

Specific methods **Hazardous combustion** 

products

None established. Refer to section 10.

### 6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

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

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand Methods for containment

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	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m3	Inhalable fraction.

Material name: CN045Series MSDS US **U.S. - Tennessee** 

Value Components Type TWA 3.5000 ma/m3 Carbon black (1333-86-4)

**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.

Hα 7.5

**Melting point** Not available. Freezing point Not available. **Boiling point** Not available.

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

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

upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

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.

#### IARC Monographs: Evidence of carcinogenicity in humans

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

**IARC Monographs: Overall evaluation** 

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

Material name: CN045Series MSDS US

11120 Version #: 01 Revision date: 06-Dec-2011 Print date: 04-Jan-2012

#### **US ACGIH Threshold Limit Values: A3 carcinogen**

Carbon black (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 (CAS 1333-86-4) **Eves**

> > 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.

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** 

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 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

Material name: CN045Series MSDS US

11120 Version #: 01 Revision date: 06-Dec-2011 Print date: 04-Jan-2012

#### State regulations

#### **US - Pennsylvania RTK - Hazardous Substances: Listed substance**

2-pyrrolidone (CAS 616-45-5) Listed. Carbon black (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** 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.

**Issue date** 04-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

Material name: CN045Series MSDS US

11120 Version #: 01 Revision date: 06-Dec-2011 Print date: 04-Jan-2012