# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Material name CN057Series

Version # 03

Issue date04-Jan-2012Revision date06-Jan-2014Product useInkjet printingCAS #Mixture

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

Telephone 650-857-5020

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-760-710-0048 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.

**Potential health effects** 

Inhalation

Avoid breathing vapors or mists of this product. Inhalation of mist causes irritation of respiratory

system. Inhalation may result in respiratory irritation.

Other hazards

Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation. 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. Complete toxicity data are not available for this specific formulation 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

Hazardous components	CAS #	Percent
2-pyrrolidone	616-45-5	< 15
Carbon Black Colorant	1333-86-4	< 5

Non-hazardous components	CAS #	Percent	
Water	7732-18-5	> 70	
Co-Solvent	Proprietary	< 10	

# **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

General advice No information

Material name: CN057Series

MSDS US

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.

For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide.

**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

For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray.

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

Not available.

Specific methods
Hazardous combustion

None established. Refer to section 10.

products

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 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**

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Carbon Black Colorant (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

 Components
 Type
 Value

 Carbon Black Colorant (CAS
 PEL
 3.5 mg/m3

1333-86-4)

**US. NIOSH: Pocket Guide to Chemical Hazards** 

ComponentsTypeValueCarbon Black Colorant (CASTWA0.1 mg/m3

1333-86-4)

US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

ComponentsTypeValueCarbon Black Colorant (CASTWA3.5 mg/m3

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

Material name: CN057Series MSDs us

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Not available.

Physical state Liquid.

Form Not available.

Color Black.

Odor Not available. pH 7.5 - 9

Vapor pressureNot available.Boiling pointNot available.Melting point/Freezing pointNot available.Solubility (water)Not available.Specific gravityNot available.

Flash point > 230.00 °F (> 110.00 °C) Pensky-Martens Closed Cup

**VOC** < 229 g/L

**Other information** For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under recommended storage conditions.

**Conditions to avoid**No information 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.

**Possibility of hazardous** 

reactions

Will not occur.

# 11. Toxicological Information

## **Toxicological data**

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45	5-5)		
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Carbon Black Colorant (CA	AS 1333-86-4)		
Acute			
Oral			
LD50	Rat	> 8000 mg/kg	

**Acute effects** No information available.

**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, INHALABLE FRACTION (CAS 1333-86-4) A3 Confirmed animal carcinogen with unknown relevance to

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Serious eye damage/eye

irritation

Not available.

Material name: CN057Series MSDS US

**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

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

**Ecotoxicological data** 

Components Species Test Results

2-pyrrolidone (CAS 616-45-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours

**Ecotoxicity** This product has not been tested for ecological effects.

Persistence and degradability Not available.

**Bioaccumulation / Accumulation** 

**Bioaccumulative potential** 

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85

**Partition coefficient** 

2-pyrrolidone -0.85

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.

# **IMDG**

Not regulated as dangerous goods.

## RID

Not regulated as dangerous goods.

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

15. Regulatory Information

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

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA (Superfund) reportable quantity**

None

Material name: CN057Series MSDs us

# 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

**SARA 302 Extremely** hazardous substance

**SARA 311/312 Hazardous chemical**  No

## Other information

Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 884 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

#### Other regulations

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

# State regulations

# US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF Listed: February 21, 2003 Carcinogenic.

RESPIRABLE SIZE [<= 10 MICROMETERS]) (CAS

1333-86-4)

# **US - New Jersey RTK - Substances: Listed substance**

Carbon Black Colorant (CAS 1333-86-4) Listed.

### **US. Massachusetts RTK - Substance List**

2-pyrrolidone (CAS 616-45-5)

Carbon Black Colorant (CAS 1333-86-4)

## **US. Pennsylvania RTK - Hazardous Substances**

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

**US. Rhode Island RTK** 

Carbon Black Colorant (CAS 1333-86-4)

#### 16. Other Information

**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.

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

CFR 1910.1200).

Issue date 04-Jan-2012

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Material name: CN057Series MSDS US **Manufacturer information** Hewlett-Packard Company

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Palo Alto, California 94304-1112 US

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(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: CN057Series MSDS US