MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CN049Series

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
< 15	2-pyrrolidone
< 5	Carbon Black Colorant
1	Carbon Black Colorant

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

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.

Remove to fresh air. If symptoms persist, get medical attention. Inhalation 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.

Fire fighting

equipment/instructions

Not available.

Specific methods None established. **Hazardous combustion** 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.
1000.05.4			

1333-86-4)

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

Components	Туре	Value
Carbon Black Colorant (CAS	PEL	3.5 mg/m3

1333-86-4)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value
Carbon Black Colorant (CAS	TWA	0.1 mg/m3

1333-86-4)

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

Components	туре	value
Carbon Black Colorant (CAS	TWA	3.5 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.

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 avoidNo 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 616-4	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 ma/ka	

Acute effects No information available.

CarcinogenicityCarbon 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.

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

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

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