## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name CN621Series

Version # 05

Issue date05-Nov-2012Revision date15-Oct-2013Product useInkjet printingCAS #Mixture

**Company identification** Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

**United States** 

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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

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#### 2. Hazards Identification

# **Emergency overview**

Other hazards

Contact with skin and eyes may result in irritation.

Complete toxicity data are not available for this specific formulation Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

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.

# 3. Composition / Information on Ingredients

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

Non-hazardous components	CAS #	Percent
Water	7732-18-5	> 70
Cyclo Amide	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.

Material name: CN621Series MSDS US

12639 Version #: 05 Revision date: 15-Oct-2013 Issue date: 05-Nov-2012

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

develops or persists.

InhalationMove 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

Dry chemical, CO2, water spray or regular foam.

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 (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			

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

Components	Туре	Value
Carbon black (CAS	PEL	3.5 mg/m3
1333-86-4)		_

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

Components	Туре	Value
Carbon black (CAS	TWA	0.1 mg/m3

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

Components	Туре	Value	
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	

**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**Handle in accordance with good industrial hygiene and safety practice.

considerations

1333-86-4)

9. Physical & Chemical Properties

AppearanceLiquid.Physical stateLiquid.

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** < 130.2 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
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2-pyrrolidone (CAS 616-45-5)

**Acute** 

Oral

LD50 Guinea pig 6500 mg/kg
Rat 6500 mg/kg

Carbon black (CAS 1333-86-4)

Acute

Oral

LD50 Rat

> 8000 mg/kg

**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 humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

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

Serious eye damage/eye

irritation

Not available.

**Further information** Complete toxicity data are not available for this specific formulation

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.

Do not dispose of together with general office waste. Ensure collection and disposal with an

appropriately licensed waste contractor.

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.

RTD

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

No

SARA 311/312 Hazardous chemical No

Other information

VOC content (less water, less exempt compounds) = < 548 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 (CAS 1333-86-4) Listed.

**US. Massachusetts RTK - Substance List** 

2-pyrrolidone (CAS 616-45-5) Carbon black (CAS 1333-86-4)

**US. Pennsylvania RTK - Hazardous Substances** 

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

**US. Rhode Island RTK** 

Carbon black (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 05-Nov-2012

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

Composition / Information on Ingredients: Disclosure Overrides

Manufacturer information Hewlett-Packard Company

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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