MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CN623Series

Version # 04

Issue date18-Feb-2013Revision date30-Sep-2013Product 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) 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.

Other hazards

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. Complete toxicity data are not available for this specific formulation

3. Composition / Information on Ingredients

616-45-5 Proprietary CAS #	< 10 <5
CAS #	Dorcont
CAS #	Percent
7732-18-5	> 60
Proprietary	< 15
Droprioton	< 5
	Proprietary Proprietary

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).

4. First Aid Measures

General advice Potential routes of overexposure to this product are skin and eye contact

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. If irritation persists get medical

attention.

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

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5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

Not available.

Specific methods

Wear self contained breathing apparatus for fire fighting if necessary.

Use a water spray to cool fully closed containers.

Hazardous combustion

products

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 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
Glycerol (CAS Proprietary)	TWA	10 mg/m3	Mist.
US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 191	l 0.1000)	
Components	Type	Value	Form
Components	.,,,,		. •
Glycerol (CAS Proprietary)	PEL	5 mg/m3	Respirable fraction.

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

os. Terriessee: occupational Exposure Limits, Tubic EIA		AC EIA	
Components	Туре	Value	Form
Glycerol (CAS Proprietary)	TWA	5 mg/m3	Respirable fraction and dust or fume.
		10 ma/m3	Total dust and mist.

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

GeneralUse personal protective equipment to minimize exposure to skin and eye. **General hygiene**Handle in accordance with good industrial hygiene and safety practice.

considerations

9. Physical & Chemical Properties

AppearanceLiquid.Physical stateLiquid.

Form Not available.
Color Magenta
Odor Not available.

pH 9 - 10

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Vapor pressure Not determined **Boiling point** Not determined Melting point/Freezing point Not available. Solubility (water) Soluble in water Specific gravity Not available.

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

VOC < 96.017 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 emits 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)			_
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Carcinogenicity	No data available.		
Serious eye damage/eye irritation	Not available.		
Further information	Complete toxicity data are not ava	ilable for this specific formulation	

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

Aquatic Crustacea

Test Results
< 750 mg/l, 96 hours
Test Results
13.21 mg/l, 48 hours
51000 - 57000 mg/l, 96 hours
102, 48 Hours
1000, 96 Hours
_

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Water flea (Daphnia magna)

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EC50

10330 - 16360 mg/l, 48 hours

Components Species Test Results

Fish LC50 Bleak (Alburnus alburnus) > 10000 mg/l, 96 hours

Ecotoxicity No data available. **Persistence and degradability** Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

2-pyrrolidone -0.85 alkyldiol -1.76

Partition coefficient

2-pyrrolidone -0.85 alkyldiol -1.76

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.

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

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SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

Other information

VOC content (less water, less exempt compounds) = <377 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 - New Jersey RTK - Substances: Listed substance

alkyldiol (CAS Proprietary) Listed.

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5) alkyldiol (CAS Proprietary)

US. Pennsylvania RTK - Hazardous Substances

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

US. Rhode Island RTK
alkyldiol (CAS Proprietary)

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 18-Feb-2013

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

Ecological Information: Ecotoxicity

12. Ecological Information: Aquatic toxicity

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

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