

# SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or

CN632Series

designation of the mixture

**Registration number** N/A **Synonyms** None. **Issue date** 24-Jun-2013

**Version number** 

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Inkjet printing Uses advised against None known.

Company identification Hewlett-Packard, Ltd.

> Cain Road, Amen Corner Bracknell, Berkshire, RG12 1HN Telephone 1 344 36-0000

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 Poison Information Center 0207771 5307

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Emergency overview** Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and

diarrhea.

**Hazard summary** 

**Physical hazards** Not classified for physical hazards. **Health hazards** Not classified as a health hazard.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazards Not available. Main symptoms Not available.

2.2. Label elements

# Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: 2-pyrrolidone, Alkyldiol, Diethylene glycol, Polymer 683-K salt, Water

Not available. R-phrase(s) S-phrase(s) Not available. **Authorization number** Not available. Supplemental label Not applicable.

information

2.3. Other hazards This cyan ink is not classified according to EU Directive 1999/45/EC. 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

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Material name: CN632Series SDS UK 1/8

**General information** 

% CAS-No. / EC No. REACH Registration No. Index No. **Chemical name Notes** Water <80 7732-18-5 231-791-2 Classification: DSD: -CLP: -2-pyrrolidone <7.5 616-45-5 210-483-1 **Classification:** DSD: Xi;R36 **CLP:** Eye Irrit. 2;H319 Alkyldiol <7.5 Proprietary 230-029-6 Classification: **DSD:** Xi;R36/37/38 CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335 Diethylene glycol <5 111-46-6 603-140-00-6 203-872-2 **Classification: DSD:** Xn;R22 CLP: Acute Tox. 4;H302 Polymer 683-K salt < 2.5

**Classification:** DSD: -

CLP:

**Composition comments** This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and

1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

**General information** Not available.

4.1. Description of first aid measures

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

Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

Not available.

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.

**Ingestion** If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

needed

No notes to physicians.

SECTION 5: Firefighting measures

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

CO2, water, dry chemical, or foam

media

Unsuitable extinguishing None known.

media

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**5.2. Special hazards arising** 

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for

Not available.

firefighters

Special fire fighting

procedures

Not available.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Not available.

6.2. Environmental

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

6.3. Methods and material for containment and cleaning up

Not available.

6.4. Reference to other

sections

precautions

Not available.

# SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep away from excessive heat or cold. Store away from strong oxidizers.

**7.3. Specific end use(s)**Not available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

# **Occupational exposure limits**

### **UK. EH40 Workplace Exposure Limits (WELs)**

	· · · · · · · · · · · · · · · · · · ·		
Components	Туре	Value	
Diethylene glycol (CAS 111-46-6)	TWA	101 mg/m3	
,		23 ppm	

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Not available.

**Derived no-effect level** 

(DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

### 8.2. Exposure controls

**Appropriate engineering** 

controls

Use in a well ventilated area.

# Individual protection measures, such as personal protective equipment

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

**Eye/face protection** Not required under intended use.

Skin protection

Hand protection Not available.

**- Other** Protected gloves not required under intended use.

**Respiratory protection** For use other than intended use (such as in the event of a large spill), goggles and respirators may

be required.

Thermal hazards Not available.

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

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## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Not available.
Form Not available.
Color Light Cyan
Odor Not available.
Odor threshold Not available.

pH 9.2

Melting point/freezing point Not available.

Initial boiling point and Not determined

boiling range

Flash point > 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not determined

(%)

Flammability limit -

upper (%)

Not available.

Vapor pressureNot determinedRelative densityNot available.Solubility(ies)Soluble in waterPartition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot determinedDecomposition temperatureNot available.ViscosityNot applicable.Explosive propertiesNot available.Oxidizing propertiesNot determined

9.2. Other information

**VOC (Weight %)** < 190 g/l

# SECTION 10: Stability and reactivity

**10.1. Reactivity** Not available.

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

10.3. Possibility of hazardous

reactions

Will not occur.

**10.4. Conditions to avoid** Not available.

**10.5. Incompatible materials** Incompatible with strong bases and oxidizing agents.

10.6. Hazardous

decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon

dioxide and/or low molecular weight hydrocarbons.

hydrogen fluoride fluorinated hydrocarbons

ketones aldehydes

# SECTION 11: Toxicological information

**General information** Not available. **Information on likely routes of exposure** 

Ingestion Not available.
Inhalation Not available.
Skin contact Not available.
Eye contact Not available.
Symptoms Not available.

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## 11.1. Information on toxicological effects

Components	Species	Test Results	
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig	6500 mg/kg	
	Rat	6500 mg/kg	
Diethylene glycol (CAS 111-46-6)			
Acute			
<i>Dermal</i>	Dahhit	11000 mg/kg	
LD50	Rabbit	11890 mg/kg	
<i>Oral</i> LD50	Cat	3300 mg/kg	
LUSU			
	Dog	9000 mg/kg	
	Guinea pig	8700 mg/kg	
		14 g/kg	
	Mouse	23700 mg/kg	
		13.3 g/kg	
	Rabbit	26.9 g/kg	
	Rat	12565 mg/kg	
		15.6 g/kg	
Other			
LD50	Mouse	22500 mg/kg	
		9.6 g/kg	
	Rabbit	2000 mg/kg	
	Rat	7700 mg/kg	
		7.7 g/kg	
Skin corrosion/irritation	Not available.		
Serious eye damage/eye	Not available.		
rritation			
Respiratory sensitization	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity	Not available.		
Reproductive toxicity	Not available.		
Specific target organ toxicity single exposure	Not available.		
Specific target organ toxicity repeated exposure	Not available.		
Aspiration hazard	Not available.		
Mixture versus substance information	Not available.		
Other 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.		

# SECTION 12: Ecological information

LC50/96h/Fathead minnows => 750 mg/l **Aquatic toxicity** 

12.1. Toxicity

Components **Species Test Results** 

2-pyrrolidone (CAS 616-45-5)

**Aquatic** 

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

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Components Species Test Results

Diethylene glycol (CAS 111-46-6)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours

12.2. Persistence and

degradability

Not available.

12.2 Biogrammulat

12.3. Bioaccumulative

Not available.

potential

**Partition coefficient** 

n-octanol/water (log Kow)

2-pyrrolidone -0.85

**Bioconcentration factor (BCF)** Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

**12.6. Other adverse effects** Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Residual waste

Contaminated packaging

Not available.

FU waste code

Not available.

**Disposal** Dispose of in compliance with federal, state, and local regulations.

methods/information 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.

### **SECTION 14: Transport information**

#### **ADR**

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

# **IMDG**

Not regulated as dangerous goods.

### SECTION 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed

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Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

**Authorizations** 

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

**Restrictions on use** 

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Diethylene glycol (CAS 111-46-6)

Directive 94/33/EC on the protection of young people at work

Not regulated.

**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.

Not available.

National regulations

**15.2. Chemical Safety** Not available.

**Assessment** 

SECTION 16: Other information

**References** Not available.

Full text of any statements or R-phrases and H-statements

under Sections 2 to 15

R22 Harmful if swallowed. R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

**Revision information** None.

**Training information** Not available.

**Disclaimer** This Safety Da

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may not meet regulatory requirements in other countries.

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Material name: CN632Series SDS UK

### **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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