

# SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	CN634Series
Registration number	N/A
Synonyms	None.
Issue date	25-Jun-2013
Version number	01
1.2. Relevant identified uses of	f 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 44 (0) 879 013 0790
	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. May cause sensitization of susceptible persons.
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, Carbon black, Diethylene glycol, Triethanolamine, Water		
R-phrase(s)	Not available.		
S-phrase(s)	Not available.		
Authorization number	Not available.		
Supplemental label information	Not applicable.		
2.3. Other hazards	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. This light gray 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 None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.		

#### SECTION 3: Composition/information on ingredients 3.2. Mixtures General information **Chemical name** % CAS-No. / EC No. REACH Registration No. Index No. Notes Water <90 7732-18-5 231-791-2 **Classification:** DSD: -CLP: -Alkyldiol <7.5 Proprietary \_ 230-029-6 **Classification:** DSD: Xi;R36/37/38 Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335 CLP: 2-pyrrolidone <5 616-45-5 \_ 210-483-1 **Classification: DSD:** Xi;R36 CLP: Eye Irrit. 2;H319 Diethylene glycol <5 111-46-6 603-140-00-6 \_ 203-872-2 **DSD:** Xn;R22 **Classification:** CLP: Acute Tox. 4;H302 Carbon black <1 1333-86-4 215-609-9 **Classification:** DSD: -**CLP:** -Triethanolamine <1 102-71-6 \_ 203-049-8 **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. Carbon black is present only in a bound form in this preparation. 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. 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 material is ingested, immediately contact a physician or poison control center. 4.2. Most important Not available.

 needed

 Material name: CN634Series

 Version No.: 01
 Print date: 25-Jun-2013

No notes to physicians.

symptoms and effects, both

immediate medical attention and special treatment

acute and delayed 4.3. Indication of any

# SECTION 5: Firefighting measures

5 5	
General fire hazards	Not available.
5.1. Extinguishing media	
Suitable extinguishing media	CO2, water, dry chemical, or foam
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the substance or mixture	Not available.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Not available.
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 precautions	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	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**

Components	Туре	Value	
Carbon black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3.5 mg/m3	
Diethylene glycol (CAS 111-46-6)	TWA	101 mg/m3	
-		23 ppm	
ological limit values	No biological exposure limits noted	for the ingredient(s).	
ecommended monitoring ocedures	Not available.		
erived no-effect level NEL)	Not available.		
edicted no effect ncentrations (PNECs)	Not available.		
2. Exposure controls			
propriate engineering	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 available.	
Skin protection		
- Hand protection	Not available.	
- Other	Not available.	
<b>Respiratory protection</b>	Not available.	
Thermal hazards	Not available.	
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.	

# 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 Grey
Odor	Not available.
Odor threshold	Not available.
рН	9.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	Not applicable.
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or ex	cplosive limits
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Vapor pressure	Not determined
Relative density	Not available.
Solubility(ies)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not determined
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not determined
9.2. Other information	
VOC (Weight %)	< 63.7 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

# SECTION 11: Toxicological information

Not available.

# General information

Information on likely routes	s of exposure	
Ingestion	Not available.	
Inhalation	Not available.	
Skin contact	Not available.	
Eye contact	Not available.	
Symptoms	Not available.	
11.1. Information on toxico	logical effects	
Components	Species	Test Results
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		2222 //
LD50	Rat	> 8000 mg/kg
Diethylene glycol (CAS 111-46-6	6)	
<b>Acute</b> Dermal		
LD50	Rabbit	11890 mg/kg
Oral	Rabbit	11050 mg/kg
LD50	Cat	3300 mg/kg
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
		14 g/kg
	Mouse	23700 mg/kg
	Mouse	13.3 g/kg
	Rabbit	
		26.9 g/kg
	Rat	12565 mg/kg
<b>0</b> //		15.6 g/kg
<i>Other</i> LD50	Mouse	22500 mg/kg
LDJU	Mouse	
	Rabbit	9.6 g/kg 2000 mg/kg
	Rat	7700 mg/kg
		7.7 g/kg
Triethanolamine (CAS 102-71-6	)	
<b>Acute</b> Dermal		
LD50	Rabbit	> 20000 mg/kg
Oral		ى
LD50	Guinea pig	5300 mg/kg
	Rat	8 g/kg
Other		
LD50	Mouse	1450 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	

Germ cell mutagenicity	Not 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.
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 **Test Results** Species 2-pyrrolidone (CAS 616-45-5) Aquatic EC50 Crustacea Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Diethylene glycol (CAS 111-46-6) Aquatic Fish LC50 Western mosquitofish (Gambusia affinis) > 32000 mg/l, 96 hours Triethanolamine (CAS 102-71-6) Aquatic Crustacea EC50 Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 10610 - 13010 mg/l, 96 hours 12.2. Persistence and Not available. degradability 12.3. Bioaccumulative Not available. potential **Partition coefficient** n-octanol/water (log Kow) 2-pyrrolidone -0.85 Triethanolamine -1 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	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.
Disposal methods/information	Dispose of in compliance with federal, state, and local 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.

# SECTION 14: Transport information

# ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

## ΙΑΤΑ

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.

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.

# SECTION 16: Other information

References	Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	<ul> <li>R22 Harmful if swallowed.</li> <li>R36 Irritating to eyes.</li> <li>R36/37/38 Irritating to eyes, respiratory system and skin.</li> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> </ul>
Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Fire Fighting Measures: Fire & Explosion Properties Physical & Chemical Properties: Physical & Chemical Properties 14. Transport Information: Material Transportation Information 15. Regulatory Information: United States
Training information	Not available.
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc 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.
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