




# SAFETY DATA SHEET

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## 1. Chemical and company identification

<b>Important information</b>	*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***
<b>Name of chemical (Product name)</b>	CN984 Series
	HP Japan Inc. 4F Ojima2-2-1 Koto-ku Tokyo, Japan 136-8711
<b>Poison Information Centre Telephone</b>	0120-50-3024 (+81) 3 5749-8363
<b>HP Inc. health effects line (Toll-free within the US) (Direct)</b>	1-800-457-4209 1-760-710-0048
<b>HP Inc. Customer Care Line (Toll-free within the US) (Direct)</b>	1-800-474-6836 1-208-323-2551
<b>Email:</b>	hpcustomer.inquiries@hp.com
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Intended use</b>	Inkjet printing.

## 2. Hazards identification

<b>GHS classification</b>	
<b>Physical hazards</b>	The product is not classified according to GHS.
<b>Health hazards</b>	Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation Category 1
<b>Environmental hazards</b>	The product is not classified according to GHS.
<b>GHS label elements</b>	
<b>Symbols</b>	
<b>Signal words</b>	Danger
<b>Hazard statement</b>	Harmful in contact with skin. Harmful if inhaled. Causes serious eye damage.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
<b>Response</b>	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards which do not result in classification</b>	Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

<b>Substance or mixture</b>	Mixture
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Components	CAS Number	Gazette notification		
		ENCS no.	ISHL no.	Concentration (%)
2-butoxyethyl acetate	112-07-2	(2)-740	(2)-740	<70
2-methoxy-1-methylethyl acetate	Proprietary	(2)-3144	(2)-3144	<15
Cyclohexanone	108-94-1	(3)-2376	(3)-2376	<7.5
Pigment Blue	Proprietary	Proprietary	Proprietary	<1

**Synonym(s)** HP Scitex TJ100 Supreme Light Cyan Ink  
**Chemical formula** C8-H16-O3 (112-07-2), C8-H16-O3 (112-07-2), C6-H10-O (108-94-1), C6-H10-O (108-94-1)

#### 4. First aid measures

**If inhaled** Move person to fresh air immediately.  
If symptoms persist, get immediate medical attention.

**If on skin** In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse.  
Get medical attention, if needed.

**If in eyes** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately.

**If swallowed** Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.  
Get medical attention immediately.

#### 5. Fire-fighting measures

**Extinguishing media** Suitable extinguishing media: sand, carbon dioxide (CO<sub>2</sub>), and dry chemical.

**Extinguishing media to avoid** None.

**Special fire fighting procedures** Move containers from fire area if you can do it without risk.

**Protection of fire-fighters** Firefighters should wear full protective clothing including self contained breathing apparatus. Avoid runoff into storm sewers and ditches which lead to waterways.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency measures** Avoid contact with skin. Avoid inhalation of vapors or mists.  
Do not touch or walk through spilled material. Ensure adequate ventilation. Remove all sources of ignition.  
Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

**Methods or materials for containment and cleaning up** Not available.

#### 7. Handling and storage

**Handling**

**Technical measures (e.g. Local and general ventilation)** Not available.

**Safe handling advice** Use this product with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid breathing vapors or mists of this product.

**Hygiene measures** Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.  
When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.  
Launder contaminated clothing before reuse.

**Storage**

**Safe storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

**Safe packaging materials** Not available.

#### 8. Exposure controls/personal protection

##### Occupational exposure limits

##### Japan. OELs - ISHL. (Workplace Environment Assessment Standards)

Components	Type	Value
Cyclohexanone (CAS 108-94-1)	TLV	20 ppm

**Japan. OELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits)**

Components	Type	Value
Cyclohexanone (CAS 108-94-1)	TWA	100 mg/m <sup>3</sup> 25 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
2-butoxyethyl acetate (CAS 112-07-2)	TWA	20 ppm
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
	TWA	20 ppm

**Biological limit values**

**Japan. BELs - JSOH (Japan Society of Occupational Health: Recommendation of Occupational Exposure Limits Based on Biological Monitoring)**

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethyl acetate (CAS 112-07-2)	200 mg/g	Butoxyacetic acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Cyclohexanone (CAS 108-94-1)	80 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
	8 mg/l	Cyclohexanol, with hydrolysis	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

**US ACGIH Threshold Limit Values: Skin designation**

Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**Personal protective equipment**

**Respiratory protection** Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** Recommended gloves: Nitrile 6 mil minimum thickness.

**Hygiene measures**

Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

**Personal protective equipment**

**Eye protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

**Skin and body protection** Wear appropriate chemical resistant clothing.

**9. Physical and chemical properties**

**Appearance**

**Physical state** Not available.

**Form** Liquid.

**Color** Light Cyan

**Odor** Solvent.

**pH** 5.8 - 6.2 Metler Toledo pH Meter

**Melting point/Freezing point** Not available.

**Boiling point, initial boiling point, and boiling range** Not available.

**Flash point** >= 149.0 °F (>= 65.0 °C) Closed Cup EPA Method 1020

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (Coefficient of viscosity)</b>	11.5 - 12.8 cP Brookfield Viscometer T 22C Spindle #18 (S18) RPM 100
<b>Other information</b>	
<b>VOC</b>	< 916 g/L Calculated

## 10. Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	None.

## 11. Toxicological information

**Acute toxicity** Harmful if inhaled. Harmful in contact with skin.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Cyclohexanone (CAS 108-94-1)		
<u><b>Acute</b></u>		
<b>Inhalation</b>		
<i>Vapor</i>		
LC50	Rat	> 6.2 mg/l, 4 Hours
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>ACGIH Carcinogens</b>		
Cyclohexanone (CAS 108-94-1)		A3 Confirmed animal carcinogen with unknown relevance to humans.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Cyclohexanone (CAS 108-94-1)		3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.	
<b>Other information</b>	Complete toxicity data are not available for this specific formulation.	

## 12. Ecological information

<b>Ecotoxicity</b>	Not available.
<b>Persistence and degradability</b>	Not available.

<b>Bioaccumulation</b>	Not available.
<b>Bioaccumulative potential</b>	
<b>Octanol/water partition coefficient log Kow</b>	
Cyclohexanone	0.81
<b>Mobility in soil</b>	Not available.
<b>Hazardous to the ozone layer</b>	Not available.

### 13. Disposal considerations

<b>Local disposal regulations</b>	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.
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### 14. Transport information

<b>DOT</b>	
<b>UN number</b>	NA1993
<b>UN proper shipping name</b>	Combustible liquid n.o.s. (2-methoxy-1-methylethyl acetate, cyclohexanone) -Not regulated in quantities less than 119 gallons
<b>Transport hazard class(es)</b>	
<b>Class</b>	Combustible
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Special precautions for user</b>	Not available.
<b>DOT Supplemental Information</b>	DOT Classification only applies to shipments within the US and Puerto Rico.
<b>IATA</b>	
<b>UN number</b>	Not available.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not available.
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not available.
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Not available.
<b>IMDG</b>	
<b>UN number</b>	Not available.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not available.
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not available.
<b>Transport hazard class(es)</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	Not available.
<b>Special precautions for user</b>	Not available.
<b>ADR</b>	
<b>UN number</b>	Not available.
<b>UN proper shipping name</b>	Not Regulated
<b>Transport hazard class(es)</b>	
<b>Class</b>	Not available.
<b>Subsidiary risk</b>	-
<b>Hazard No. (ADR)</b>	Not available.
<b>Tunnel restriction code</b>	Not available.
<b>Packing group</b>	Not available.
<b>Environmental hazards</b>	No.
<b>Special precautions for user</b>	Not available.
<b>Further information</b>	Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

### 15. Regulatory information

#### Industrial Safety and Health Act

##### Organic solvent regulation

##### Class 2 organic solvents

CYCLOHEXANONE

##### Notifiable substances

2-butoxyethyl acetate

0 - 70 %

CYCLOHEXANONE	Table 9 Ordinance No. 231	0 - 7.5 %
<b>Labeling substances</b>		
2-butoxyethyl acetate		0 - 70 %
CYCLOHEXANONE		0 - 7.5 %
<b>Poisonous and Deleterious Substances Control Act</b>		
<b>Specified poisonous substances</b>		
Not regulated.		
<b>Poisonous substances</b>		
Not regulated.		
<b>Deleterious substances</b>		
Not regulated.		
<b>Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.</b>		
<b>Class I specified chemical substances</b>		
Not regulated.		
<b>Class II specified chemical substances</b>		
Not regulated.		
<b>Monitoring chemical substances</b>		
Not regulated.		
<b>Priority Assessment Chemical Substances (PACs)</b>		
2-BUTOXYETHYL ACETATE		
CYCLOHEXANONE		
<b>Reporting Exempted Substances</b>		
Not regulated.		
<b>Law concerning Pollutant Release and Transfer Register</b>		
<b>Specified class 1 substances (substance name, ordinance number and content)</b>		
Not regulated.		
<b>Class 1 substances (substance name, ordinance number and content)</b>		
Not regulated.		
<b>Class 2 substances (substance name, ordinance number and content)</b>		
Not regulated.		
<b>Fire Service Act</b>	Class 4 Group 2 oils (Non-water soluble) Hazard rank III	
<b>Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule</b>	Not regulated.	
<b>Air Law, Enforcement Rule</b>	Not regulated.	
<b>Explosives Control Act</b>	Not regulated.	
<b>Act on Prevention of Marine Pollution and Maritime Disaster</b>		
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	Category: Y	
CYCLOHEXANONE	Category: Z	
<b>Regulatory information</b>	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.	

## 16. Other information

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs. This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

## Explanation of abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds