



# MATERIAL SAFETY DATA SHEET

## 1. Chemical product and company identification

**A. Product name** CN883 Series  
**Synonym(s)** HP PT70 Specialty Polycarbonate Scitex Solution

**B. Recommended use and Limitations on use**  
**Recommended use** Inkjet printing

**Company identification** HP Korea House  
23-6 Yoido-dong  
Youngdeungpo-gu  
Seoul 150-742, Korea  
Telephone (02) 2199-0114

HP Inc. health effects line  
(Toll-free within the US) 1-800-457-4209  
(Direct) 1-760-710-0048  
HP Inc. Customer Care Line  
(Toll-free within the US) 1-800-474-6836  
(Direct) 1-208-323-2551  
Email: hpcustomer.inquiries@hp.com

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## 2. Hazards identification

### A. Hazard category/Classification

<b>Physical hazards</b>	Flammable liquids	Category 3
<b>Health hazards</b>	Acute toxicity (oral)	Category 4
	Acute toxicity (dermal)	Category 3
	Acute toxicity (inhalation)	Category 3
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 2
	Toxic to reproduction	Category 2
	Specific target organ toxicity - single exposure	Category 1
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	
Specific target organ toxicity - single exposure	Category 3 narcotic effects	
Specific target organ toxicity - repeated exposure	Category 1	
<b>Environmental hazards</b>	Not classified.	

### B. Warning label items including precautionary statement

- **Pictogram** None.
- **Signal word** None.
- **Hazard statement** None.
- **Precautionary statement**
  - Prevention** None
  - Response** None
  - Storage** None
  - Disposal** None

**C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard)** Flammable.

### 3. Composition/information on ingredients

Chemical identity	Common and alternative names	CAS number	ID number	Content in percent (%)
Cyclohexanone		108-94-1	KE-09188	100

### 4. First aid measures

- A. In case of eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- B. In case of skin contact** Remove and isolate contaminated clothing and shoes. Wash the skin immediately with soap and water.
- C. In case of inhalation** Move person to fresh air immediately.  
If not breathing, give artificial respiration or give oxygen by trained personnel.  
For breathing difficulties, oxygen may be necessary.  
Call a physician or Poison Control Centre immediately.
- D. In case of swallowing** If swallowed, seek medical advice immediately and show this container or label.  
Never give anything by mouth to an unconscious person.
- E. Note to physician** Not available.

### 5. Fire-fighting measures

**A. Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** Dry chemical, foam, carbon dioxide, water fog.

**Unsuitable extinguishing media** Do not use water jet.

**B. Specific hazards arising from the chemical (example: hazardous combustion products)** Fire will produce dense black smoke containing hazardous combustion products (see heading 10).

**C. Specific methods of fire-fighting**

**Special protective equipment for firefighters** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Avoid runoff into storm sewers and ditches which lead to waterways.

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

**C. Specific methods of fire-fighting** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Avoid runoff into storm sewers and ditches which lead to waterways.

### 6. Accidental release measures

- A. 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.  
Use personal protective equipment to minimize exposure to skin and eye. Ensure adequate ventilation.
- B. Environmental precautions** Do not flush into surface water or sanitary sewer system.
- C. Methods and materials for containment and cleaning up** Not available.

### 7. Handling and storage

- A. Precautions for safe handling** Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.  
Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation.  
Wear personal protective equipment.
- B. Conditions for safe storage (including any incompatibilities)** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from strong oxidizers. Do not store near acids. Store in upright position only.

## 8. Exposure controls/personal protection

### A. Exposure limit values, biological limit values, etc

#### Korea. OELs. Standards for Exposure to Chemical Substances and Physically Hazardous Factors

Components	Type	Value
Cyclohexanone (CAS 108-94-1)	STEL	200 mg/m <sup>3</sup>
	TWA	50 ppm
		100 mg/m <sup>3</sup>
		25 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Cyclohexanone (CAS 108-94-1)	STEL	50 ppm
	TWA	20 ppm

### Biological limit values

#### 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

#### Korea OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Substance can be absorbed through membrane, eye and skin and can cause whole body effects (It does not mean skin irritant).

#### US. ACGIH Threshold Limit Values

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

### B. Appropriate engineering controls

Provide adequate ventilation. Use local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn.

### C. Personal protective equipment

- **Respiratory protection** Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
- **Eye protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
- **Hand protection** Wear appropriate chemical resistant gloves.
- **Body protection** Wear appropriate chemical resistant clothing.

### Recommended monitoring procedures

**Additional exposure data** Not available.

#### Korea OELs: Skin designation

Cyclohexanone (CAS 108-94-1)

Substance can be absorbed through membrane, eye and skin and can cause whole body effects (It does not mean skin irritant).

#### US. ACGIH Threshold Limit Values

Cyclohexanone (CAS 108-94-1)

Can be absorbed through the skin.

## 9. Physical and chemical properties

### A. Appearance

**Physical state** Liquid.

**Color** Clear.

**B. Odor** Characteristic.

**C. Odor threshold** Not available.

**D. pH** Not available.

**E. Melting point/freezing point** Not available.

**F. Boiling point, initial boiling point, and boiling range** 314.6 °F (157 °C)

<b>G. Flash point</b>	109.4 °F (43.0 °C) Closed Cup
<b>H. Evaporation rate</b>	Not available.
<b>I. Flammability (solid, gas)</b>	Not available.
<b>J. Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>K. Vapor pressure</b>	4 torr
<b>L. Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>M. Vapor density</b>	Not available.
<b>N. Specific gravity</b>	Not available.
<b>O. n-octanol/water partition coefficient</b>	Not available.
<b>P. Auto-ignition temperature</b>	Not available.
<b>Q. Decomposition temperature</b>	Not available.
<b>R. Viscosity</b>	Not available.
<b>S. Molecular weight</b>	Not available.
<b>Other data</b>	
<b>VOC (Weight %)</b>	1000 g/L

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## 10. Stability and reactivity

### A. Stability and hazardous reaction potential

<b>Stability</b>	Stable at normal conditions.
<b>Hazardous reaction potential</b>	Not available.

**B. Conditions to avoid (e.g. static discharge, shock or vibration, etc)** Not available.

**C. Incompatible materials** Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**D. Hazardous decomposition products** Carbon monoxide and carbon dioxide. Nitrogen oxides (NOx). smoke

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## 11. Toxicological information

### A. Information on likely routes of exposure

- **Respiratory organs** Not available.
- **Mouth** Not available.
- **Eyes** Not available.
- **Skin** Not available.

### B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** No data available.
- **Corrosivity or irritation to the skin** Not available.
- **Serious eye damage/eye irritation** Not available.
- **Respiratory sensitization** Not available.
- **Skin sensitization** Not available.

- **Carcinogenic properties /Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

- **Mutagenic properties /Mutagenicity** 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.

## 12. Ecological information

### A. Ecotoxicity

Components	Species	Test Results
Cyclohexanone (CAS 108-94-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 481 - 578 mg/l, 96 hours
<b>Hazardous to the aquatic environment, acute hazard</b>	Not available.	
<b>Hazardous to the aquatic environment, long-term hazard</b>	Not available.	
<b>B. Persistence/degradability</b>	Not available.	
<b>C. Bioaccumulative potential</b>		
<b>Bioaccumulative potential</b>		
<b>Octanol/water partition coefficient log Kow</b>		
Cyclohexanone		0.81
<b>D. Mobility in soil</b>	Not available.	
<b>E. Other adverse effects</b>	Not available.	

## 13. Disposal considerations

- A. Method of disposal** 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.
- B. Disposal considerations (including disposal of contaminated containers or packaging)** Not available.

## 14. Transport information

### DOT

<b>UN number</b>	UN1915
<b>UN proper shipping name</b>	Cyclohexanone
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packaging group</b>	III
<b>Special precautions for user</b>	Not available.

### IATA

<b>UN number</b>	UN1915
<b>UN proper shipping name</b>	Cyclohexanone
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-

**Packing group** III  
**Environmental hazards** No.  
**Special precautions for user** Not available.

**IMDG**

**UN number** UN1915  
**UN proper shipping name** Cyclohexanone  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** Not available.  
**Special precautions for user** Not available.

**ADR**

**Basic shipping requirements:**

**Proper shipping name** Cyclohexanone  
**Hazard class** 3  
**UN number** 1915  
**Packing group** III

**DOT**



**IATA; IMDG**



**ADR**

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## 15. Regulatory information

### A. Restrictions under the Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacturing

Not regulated.

#### Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

**Controlled Hazardous Substances**

CYCLOHEXANONE (CAS 108-94-1)

**Harmful Substances Requiring Special Medical Examination**

CYCLOHEXANONE (CAS 108-94-1)

**Workplace Environmental Monitoring Harmful Materials**

CYCLOHEXANONE (CAS 108-94-1)

**Occupational Exposure Limit**

CYCLOHEXANONE (CAS 108-94-1)

**B. Restrictions under the Toxic Chemicals Control Law****Accidental Release Prevention Substances**

Not regulated.

**Banned Toxic Chemicals**

Not regulated.

**Observational Chemicals**

Not regulated.

**Restricted Chemical Substances**

Not regulated.

**Toxic Chemicals**

Not regulated.

**C. Restrictions under the Dangerous Substance Safety Management Act****D. Restrictions under the Wastes Control Act****Halogenated Materials in Waste Organic Solvents**

Not regulated.

**Hazardous Substances**

Not regulated.

**E. Restrictions under other foreign or domestic laws****Clean Air Conservation Act****Air Pollutants**

Not regulated.

**Specific Air Pollutants**

Not regulated.

**Regulatory information**

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.

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**16. Other information****A. Source of information**

Not available.

**B. Issue date**

15-Jul-2013

**Revision date**

14-Aug-2016

**C. Number of revisions and date of most recent revision**

14-Aug-2016 (02 revision)

**D. Other**

Not available.

**Disclaimer**

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

Other information: Disclaimer

**Manufacturer information**

HP Inc.  
1501 Page Mill Road  
Palo Alto, CA 94304-1112 US  
(Direct) +972 (9) 892-4628

## 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