



SAFETY DATA SHEET

1. Identification

Name of the substance or mixture (trade name) CN883 Series

Synonyms HP PT70 Specialty Polycarbonate Scitex Solution

Recommended use and Limitations on use

Recommended use Inkjet printing

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2. Hazards identification

Classification of the substance or mixture

Physical hazards	Flammable liquids	Category 3
Health hazards	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 2A
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1

Environmental hazards Not classified.

Specific hazards Flammable.

GHS labeling elements, including precautionary statements

Hazard symbol(s) None.

Signal word None.

Hazard statement None.

GHS labeling elements, including precautionary statements

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

3. Composition/information on ingredients

Substance or mixture	Mixture	CAS number	Concentration or concentration range
Common chemical name or technical name			
Cyclohexanone		108-94-1	100

4. First-aid measures

First-aid measures

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.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash the skin immediately with soap and water.
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.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Flash point	109.4 °F (43.0 °C) Closed Cup
Means of fire extinguishing	
Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fog.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
Special fire fighting procedures	Move containers from fire area if you can do it without risk.
Protective measures taken by firefighting crews	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.
Specific hazards arising from combustion	Not available.

6. Control measures for spills and leaks

Personal precautions, protective equipment and emergency procedures

To be taken by those who are not involved in rendering emergency services	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.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Emergency procedures	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods and materials for containment and cleaning up	Not available.
Other issues relating to spills and releases	Dispose of in compliance with federal, state, and local regulations.

7. Handling and storage

Handling

Technical measures	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. Wear necessary protective equipment.
Local and general ventilation	Use with adequate ventilation.
Precautions	Not available.
Safe handling advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product.

Storage

Technical measures	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from oxidizers. Do not store near acids. Keep upright.
Suitable storage conditions	Not available.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Occupational exposure limits

Brazil.OELs. (NR - 15, Annex 11) Hazardous Chemical Agents for which Occupational Exposure and Inspection Limits have been Established

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

US. ACGIH Threshold Limit Values

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

Occupational exposure limits No exposure limits noted for ingredient(s).

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.

Control parameters

Exposure guidelines

Brazil OELs: Skin designation

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

US. ACGIH Threshold Limit Values

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

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.

Personal protective measures

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Thermal hazards Not available.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Color Clear.

Odor Characteristic.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling temperature range 314.6 °F (157 °C)

Flash point 109.4 °F (43.0 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 4 torr

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other physical and chemical parameters

VOC (Weight %) 1000 g/L

10. Stability and reactivity

Chemical stability Stable at normal conditions.

Reactivity Not available.

Conditions to avoid Not available.

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

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

Possibility of hazardous reactions Not available.

11. Toxicological information

Serious eye damage/eye irritation Not available.

Respiratory or skin sensitization

Skin sensitization Not available.

Respiratory sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity

ACGIH Carcinogens

Cyclohexanone (CAS 108-94-1)

A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cyclohexanone (CAS 108-94-1)

3 Not classifiable as to carcinogenicity to humans.

Aspiration hazard Not available.

12. Ecological information

Ecotoxicity

Components	Species	Test Results
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Cyclohexanone (CAS 108-94-1)

Aquatic

Fish

LC50

Fathead minnow (*Pimephales promelas*)

481 - 578 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Cyclohexanone

0.81

Bioconcentration factor (BCF)

Not available.

Mobility in soil Not available.

Other adverse effects Not available.

13. Considerations on final disposal

Recommended methods for final destination

Residual waste Not available.

Contaminated packaging Not available.

Local disposal regulations 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.

14. Transport information

International regulations

DOT

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

IATA

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

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

DOT



IATA; IMDG



ADR

15. Regulatory information

Federal regulations

Brazil. Controlled products that must be reported to the Army (Decree No. 3655, Annex 1, as amended)

Not applicable.

Brazil. Drug precursors (Ordinance No. 1.274)

Cyclohexanone (CAS 108-94-1)

Brazil. Ozone depleting substances (Decree No. 99.280, Annexes A, B, C and E, as amended)

Not applicable.

Brazil. Use and physiological effects of chemical products (Decree No. 3665, Annex 3)

Not applicable.

POPs (Decree No. 5.472 promulgates the Stockholm Convention on persistent organic pollutants)

Not listed.

International 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.

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Major recommended uses for the substance or mixture Inkjet printing

Specific restrictions for use of the substance or mixture Not available.

Significant information, yet not specifically related to the previous sections Not available.

Legends and abbreviations Not available.

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Revision Information Other information: Disclaimer

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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