



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation CN883 Series

Use of the substance/preparation Inkjet printing

Issue date 14-Aug-2016

Version # 01

Synonym(s) HP PT70 Specialty Polycarbonate Scitex Solution

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2. HAZARDS IDENTIFICATION

GHS classification

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.	

GHS label elements

Signal word None.

Hazard symbols None.

Hazard statement None.

Precautionary statement

Prevention None.

Response None.

Storage None.

Disposal None.

Specific hazards Flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Cyclohexanone	108-94-1	100

4. 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.

5. FIRE-FIGHTING MEASURES

Flash point	109.4 °F (43.0 °C) Closed Cup
Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fog.
Extinguishing media which must not be used for safety reasons	Do not use water jet.
Specific hazards	Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
Special protective equipment for fire-fighters	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.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	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.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. HANDLING AND STORAGE

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.
Storage	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

Occupational exposure limits

US. ACGIH Threshold Limit Values

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

Exposure limits

Indonesia. OELs (Minister of Manpower and Transmigration Regulation No. Per.13/MEN/X/2011 concerning Threshold Limit Values, Annex II)

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

Biological limit values

ACGIH Biological Exposure Indices Components

Value	Determinant	Specimen	Sampling Time
80 mg/l	1,2-Cyclohexanediol, with hydrolysis	Urine	*
8 mg/l	Cyclohexanol, with hydrolysis	Urine	*

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

Recommended monitoring procedures

Additional exposure data Not available.

Engineering measures to reduce exposure 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 equipment

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

Hand protection Wear appropriate chemical resistant gloves.

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 Liquid.

Color Clear.

Odor Characteristic.

pH Not available.

Melting point/Freezing point Not available.

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

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

Auto-ignition temperature Not available.

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure 4 torr

Specific gravity Not available.

Solubility(ies)

Solubility (water) Not available.

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

Decomposition temperature Not available.

Other data

VOC (Weight %) 1000 g/L

10. STABILITY AND REACTIVITY

Conditions to avoid Not available.

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

Stability Stable at normal conditions.

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

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Not available.

Respiratory or skin sensitization**Skin sensitization** Not available.**Respiratory sensitization** Not available.**Carcinogenicity****Indonesia. OELs (Minister of Manpower and Transmigration Regulation No. Per.13/MEN/X/2011 concerning Threshold Limit Values, Annex II)**

Cyclohexanone (CAS 108-94-1) A4 Not classifiable as a human carcinogen.

Germ cell mutagenicity Not available.**Toxic to reproduction** Not available.**12. ECOLOGICAL INFORMATION****Environmental effects** No data available for this product.**Persistence / degradability** Not available.**Bioaccumulation****Bioaccumulative potential****Octanol/water partition coefficient log Kow**

Cyclohexanone 0.81

Mobility Not available.**Ecotoxicological data**

Components	Species	Test Results
Cyclohexanone (CAS 108-94-1)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

13. DISPOSAL CONSIDERATIONS

Disposal instructions 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**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

Basic shipping requirements:

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

DOT



IATA; IMDG



ADR

15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

Disclaimer 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.

Prepared by HP Chemical Compliance & Toxicology Department

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

- 1. Product and Company Identification: Synonyms
- 3. Composition / Information on Ingredients: Disclosure Overrides
- 9. Physical & Chemical Properties: Multiple Properties
- 14. Transport Information: Material Transportation Information
- 15. Regulatory Information: United States

HazReg Data: Europe - EU

Manufacturer information

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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