

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

### 1.1 PRODUCT IDENTIFIER

Product name: Cyan Wide Format Ink Cartridge for HP 789 (CH616A)  
Part number: HPCH616AWF

### 1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: Inkjet Printers

### 1.3 SUPPLIER DETAILS

Supplier: Clover Imaging Group  
4200 Columbus Street  
Ottawa, IL 61350  
United States  
Phone number: 815-431-8100  
Fax: 815-461-8583  
Contact Hours: 08:00AM-05:00PM CST

### 1.4 EMERGENCY TELEPHONE NUMBERS

Supplier: 815-431-8100

\* This document provides safety-related information about ink/toner, in various forms, for use in copiers/printers etc.

## 2. HAZARDS IDENTIFICATION

### 2.1 INFORMATION and CLASSIFICATION

Overview: Classification according to GHS: Eye Irritant Cat 2A: H319 Causes serious eye irritation. GHS08 Health Hazard: Repr Tox Cat 1B: H360 May damage the unborn child. Hazard Statements: H319- Causes serious eye irritation. H360: May damage the unborn child. Precautionary Statements: PREVENTION: P201+P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P264 - Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. RESPONSE: P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311: If exposed or concerned: Call a POISON CONTROL CENTER or doctor/physician. P337+P313: If eye irritation persists: Get medical advice/attention. P405: Store in a well-ventilated place. Keep container tightly closed. DISPOSAL: P501 - Dispose of contents/container to an approved waste disposal plant

### 2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: 2-Pyrrolidone - H319/H360

Risk Phrases: N/A

Safety Phrases: Signal Word: Danger

### 2.3 OTHER HAZARDS

PBT or vPvB: Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
DI Water	7732-85-5	1-60			EC Number: 231-791-2
2-Pyrrolidone	616-45-5	1-20			EC Number: 210-483-1. GHS (Rev 5): H319/H360
Surfactants	Trade Secret	<2			
2-methyl-1,3-propanediol	2163-42-0	1-5			EC Number: 412-350-5
Polymer	Trade Secret	5-40			
Pigment	Trade Secret	1-10			

The Full Text for all R-Phrases are Displayed in Section 16

#### COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the specified substance/mixture.

### 4. FIRST-AID MEASURES

#### 4.1 FIRST AID MEASURES

##### 4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

Inhalation:	If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.
Eye contact:	Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin contact:	In case of contact, immediately flush skin with soap and plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
Ingestion:	Rinse mouth with water. Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

##### 4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information:	N/A
Immediate Medical Attention Required:	Treat symptomatically.

#### 4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:	No known significant effects or critical hazards.
Delayed Symptoms from Exposure:	No known significant effects or critical hazards.

#### 4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Foam, carbon dioxide, dry powder, water spray.

Extinguishing Media Not to be Used: N/A

### 5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Special hazards: Nitrogen oxides, carbon oxides. The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.

Extinguishing Media Not to be Used: N/A

### 5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective clothing and wear self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### 6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

#### 6.1.2 ADDITIONAL FIRST AID INFORMATION

N/A

#### 6.1.3 PERSONAL PROTECTION

Wear personal protective equipment as described in Section 8.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Regulatory Information: Keep product out of sewers and watercourses.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

## 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed. If toner, avoid creating dust. Keep away from ignition sources.

Advice on General Hygiene: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

### 7.2 CONDITIONS FOR SAFE STORAGE

Avoid high temperatures, >100°F/32°C

### 7.3 SPECIFIC END USES

Printing devices

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 3). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

### 8.2 EXPOSURE CONTROLS

#### Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

#### Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

#### Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

#### Additional Protection:

N/A

#### Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

#### Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

#### Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

#### Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 **DETAIL INFORMATION**

Physical state:	APPEARANCE: Cyan liquid.
Color:	Cyan
Odor:	N/A
Odor threshold:	N/A
Boiling point:	N/A
Melting point:	N/A
Flash point:	N/A
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

### 9.2 **OTHER INFORMATION**

SPECIFIC GRAVITY (H2O=1): 1.05 +/-0.01. pH: 8-9.

## 10. CHEMICAL STABILITY AND REACTIVITY

### 10.1 **Reactivity:**

**Reactivity Hazards:** None

**Data on Mixture Substances:** None

10.2 **Chemical Stability:** The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

10.3 **Hazardous Polymerization:** Stable under conditions of normal use.

10.4 **Conditions to Avoid:** Keep away from heat, flame, sparks and other ignition sources.

10.5 **Incompatible Materials:** Strong oxidizing materials

10.6 **Hazardous Decomposition:** Will not occur.

### 11. INFORMATION ON TOXICOLOGICAL EFFECT

<b>Mixtures:</b>	Water based inkjet ink (Mixture)
<b>Acute Toxicity:</b>	Overexposure of the eye surface to ink may generate severe eye irritation. Overexposure of ink contact with the skin may cause irritation, and in some people, swelling and redness. Intentional inhalation to ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach. 2-Pyrrolidone: LD50 Oral, rat: >5,000mg/kg. LD50 Skin, rabbit: non-irritant.
<b>Skin Corrosion/Irritation:</b>	N/A
<b>Serious Eye Damage:</b>	2-Pyrrolidone - Eye irritating: severe.
<b>Inhalation:</b>	No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.
<b>Sensitization:</b>	No sensitizing effect.
<b>Mutagenicity:</b>	No information available.
<b>Carcinogenicity:</b>	No information available.
<b>Reproductive Toxicity:</b>	May damage the unborn child.
<b>STOT - Single Exposure:</b>	No data available.
<b>STOT - Multiple Exposure:</b>	No data available.
<b>Ingestion:</b>	Harmful if swallowed. May cause gastrointestinal irritation.
<b>Hazard Class Information:</b>	N/A
<b>Mixture on Market Data:</b>	N/A
<b>Symptoms:</b>	N/A
<b>Delayed/Immediate Effects:</b>	N/A
<b>Test Data on Mixture:</b>	N/A
<b>Not Meeting Classification:</b>	N/A
<b>Routes of Exposure:</b>	Eye, skin, inhalation, and oral ingestion.
<b>Interactive Effects:</b>	N/A
<b>Absence of Specific Data:</b>	N/A
<b>Mixture vs Substance Data:</b>	N/A

### 12. ECOLOGICAL INFORMATION

12.1 <b>Eco toxicity:</b>	No data available.
12.2 <b>Degradability:</b>	No data available.
12.3 <b>Bioaccumulation Potential:</b>	No data available.
12.4 <b>Mobility in Soil:</b>	No data available.
12.5 <b>PBT &amp; vPvB Assessment:</b>	Not applicable.
12.6 <b>Other Adverse Effects:</b>	N/A

### 13. DISPOSAL CONSIDERATIONS

**Disposal Information:**

Dispose of product in accordance with local authority regulations.  
Empty container retains product residue.

**Physical/Chemical Properties that affect Treatment:**

Symbol: This product is not classified as dangerous  
Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

**Waste Treatment Information:**

If toner, do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

**Personal Protection Required:**

N/A

### 14. TRANSPORT INFORMATION

- 14.1 **ID Number:** Not regulated under United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID
- 14.2 **Shipping Name:** N/A
- 14.3 **Hazard Class:** N/A
- 14.4 **Packing Group:** N/A
- 14.5 **Environmental Hazards:** N/A
- 14.6 **User Precautions:** Transport and storage of the product in accordance with general precautions and instructions in this SDS.
- 14.7 **Bulk Transport:** N/A

### 15. REGULATORY INFORMATION

- 15.1 **Regulatory Information:** N/A
  - EPA Regulatory Information:** N/A
  - CERCLA Reportable Quantity:** N/A
- 15.2 **Superfund Information:**
  - Hazard Categories:**
    - Immediate:** N/A
    - Delayed:** N/A
    - Fire:** N/A
    - Pressure:** N/A
    - Reactivity:** N/A
  - Section 302 - Extremely Hazardous:** N/A
  - Section 311 - Hazardous:** N/A
- 15.3 **State Regulations:** CALIFORNIA PROPOSITION 65: Not regulated.
- 15.4 **Other Regulatory Information:** US. Massachusetts RTK- Substance List: 2-Pyrrolidone(cas#616-45-5) US. Pennsylvania RTK- Hazardous Substance: 2-Pyrrolidone(cas#616-45-5)

### 16. OTHER INFORMATION

**General Comments:** This information is based on our current knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application

**Creation Date of this SDS:** 03/11/2021



**Key to Abbreviations and Acronyms used in this sheet:**

ACGIH = American Conference of Governmental Industrial Hygienists	NIOSH = National Institute for Occupational Safety and Health
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	OSHA = Occupational Health and Safety Administration
CLP = Classification, Labeling, and Packaging	PEL = Permissible Exposure Limit
DSD = Dangerous Substances Directive	SCBA = Self Contained Breathing Apparatus
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity
GHS = Globally Harmonized System	TLV = Threshold Limit Value
N/A = Not Applicable	UK = United Kingdom
NFPA = National Fire Protection Association	UN = United Nations

**Ref:**

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