

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

### 1.1 PRODUCT IDENTIFIER

Product name: Postage Meter Standard Black Ink Cartridge for HP C8842A  
Part number: HPC51642A

### 1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: Postage Meters

### 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: N/A

### 2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Classification of the substance or mixture: Regulation (EC) n 1272/2008 (CLP): Eye Irrit. 2 Causes serious eye irritation. Repr. 1B: May damage fertility or the unborn child.  
Risk Phrases: Hazard Statements: H319: Causes serious eye irritation. H360: May damage fertility or the unborn child.  
Safety Phrases: Precautionary Statements: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/clothing and eye/face protection. P308+P313: IF exposed or concerned: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P501: Dispose of contents/containers in accordance with all applicable regulations.

### 2.3 OTHER HAZARDS

PBT or vPvB: No PBT ingredients are present.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
2-PYROLIDONE	616-45-5	10-12.5			EC No: 210-483-1; Eye Irrit. 2, H319; Repr. 1B, H360.
ETHYLENE GLYCOL	107-21-1	1-3			EC No: 203-473-3; Acute Tox. 4, H302.
DIMETHOXANE	828-00-2	.1-.25			EC No: 212-579-9; Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Carc. 2, H351; STOT SE 3, H335.
VINYL ACETATE	108-05-4	.05			EC No: 203-545-4; Flam. Liq. 2, H225; STOT SE 3, H335; Acute Tox. 4, H332; Carc. 2, H351.
Acetaldehyde	75-07-0	.05			EC No: 200-836-8; Flam. Liq. 1, H224; Carc. 1B, H350; Muta. 2, H341; STOT SE 3, H335, Eye Irrit. 2, H319.
Acetic Acid	64-19-7	.05			EC No. 64-19-7; Flam. Liq. 3, H226, Skin Corr. 1A, H314.

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:	Remove casualty to fresh air and keep warm and at rest.
Eye contact:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Skin contact:	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water.
Ingestion:	Do not induce vomiting, get medical attention showing the SDS and label hazardous. If symptoms persist consult doctor.

##### 4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information:	N/A
Immediate Medical Attention Required:	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### 4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:	Eye irritation. Eye damages.
Delayed Symptoms from Exposure:	Eye irritation. Eye damages.

#### 4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

N/A

### 5. FIRE-FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Carbon dioxide (CO<sub>2</sub>).  
Extinguishing Media Not to be Used: None in particular.

#### 5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Do not inhale explosion and combustion gases. Burning produces heavy smoke.  
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 personal protective equipment. Remove persons to safety.

##### 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: Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

## 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: Black liquid.
Color:	Black
Odor:	Not determined.
Odor threshold:	Not determined.
Boiling point:	100°C (212°F)
Melting point:	Not determined.
Flash point:	Not applicable
Explosion limits:	Not determined.
Relative density:	1.07 g/cm <sup>3</sup>
Auto-ignition temperature:	Not determined.

### 9.2 **OTHER INFORMATION**

pH: 8.60. Viscosity: 3.10 cPo. Soluble in water.

## 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>	N/A
<b>Acute Toxicity:</b>	2-PYROLIDONE: LD50 Oral Rat = 325 mg/kg; LD50 Skin Rabbit >2000 mg/kg; LC Inhalation Rat > 80 ppm 8h. ETHYLENE GLYCOL: LD50 Oral Rat = 4700 mg/kg; LD50 Skin Rat = 10600 mg/kg. DIMETHOXANE: LD50 Oral Rat = 1930 mg/kg. VINYL ACETATE: LD50 Skin Rabbit = 2335 mg/kg; LC50 Inhalation Rat = 11400 mg/kg <sup>3</sup> 4h; LD50 Oral Rat = 2900 mg/kg. Acetaldehyde: LD50 Oral Rat = 19300 mg/kg; LC50 Inhalation Rat = 13000 ppm 4h; LD50 Skin Rabbit = 3540 mg/kg. Acetic Acid: LC50 Inhalation Rat = 11.4 mg/L 4h; LD50 Oral Rat = 3310 mg/kg; LD50 Skin Rabbit = 160 mg/kg.
<b>Skin Corrosion/Irritation:</b>	2-PYROLIDONE: Skin Irritant Rabbit: No Irritant effect.
<b>Serious Eye Damage:</b>	2-PYROLIDONE: Eye Irritant Rabbit = Yes.
<b>Inhalation:</b>	N/A
<b>Sensitization:</b>	N/A
<b>Mutagenicity:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Reproductive Toxicity:</b>	N/A
<b>STOT - Single Exposure:</b>	N/A
<b>STOT - Multiple Exposure:</b>	N/A
<b>Ingestion:</b>	N/A
<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>	N/A
<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**

<b>12.1 Eco toxicity:</b>	2-PYROLIDONE: Aquatic acute toxicity: LC50 Fish Brachydanio rerio 4600 mg/L 96h IUCLID - 4600 - 10000 Static; Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 250 mg/L 72h IUCLID. ETHYLENE GLYCOL: Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 41000 mg/L 96h IUCLID; Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 14 mg/L 96h EPA - 14 - 18 Static; Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 27540 mg/L 96h EPA - static; Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 40761 mg/L 96h IUCLID - static; Aquatic acute toxicity: LC50 Fish Pimephales promelas 40000 mg/L 96h EPA - 40000 - 60000 static; Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 16000 mg/L 96h IUCLID - static; Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 46300 mg/L 48h IUCLID; Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 6500 mg/L 96 IUCLID - 6500 - 13000; Aquatic chronic toxicity: NOEC Pimephales Promelas = 15380.00000 mg/L - 7 days. VINYL ACETATE: Aquatic acute toxicity: LC50 Fish Pimephales promelas = 14 mg/L 96h EPA - static; Aquatic acute toxicity: LC50 Fish Lepomis macrochirus 15.04 mg/L 96h EPA - 15.04 - 21.54 static; Aquatic acute toxicity: LC50 Fish Poecilia reticulata 26.1 mg/L 96h EPA - 26.1 - 36.63 static. Acetaldehyde: Aquatic acute toxicity: LC50 Fish Pimephales promelas 28 mg/L 96h EPA - 28.0 - 34.0 flow-through; Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 53 mg/L 96h EPA - static; Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 1.8 mg/L 96h EPA - 1.8 - 2.4 static; Aquatic acute toxicity: LC50 Fish Pimephales promelas 39.8 mg/L 96h EPA - 39.8 - 46.8 static; Aquatic acute toxicity: EC50 Daphnia Daphnia magna 3.64 mg/L 48h EPA - 3.64 - 6.15 static; Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 48.3 mg/L 48h IUCLID. Acetic Acid: Aquatic acute toxicity: LC50 Fish Pimephales promelas = 79 mg/L 96h EPA - static; Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 75 mg/L 96h EPA -static; Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 65 mg/L 48h EPA -static.
<b>12.2 Degradability:</b>	2-PYROLIDONE: Persistent and biodegradable.
<b>12.3 Bioaccumulation Potential:</b>	Not available
<b>12.4 Mobility in Soil:</b>	Not available
<b>12.5 PBT &amp; vPvB Assessment:</b>	No PBT ingredients are present.
<b>12.6 Other Adverse Effects:</b>	Not determined

## 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: N/A

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: N/A

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: N/A

15.4 Other Regulatory Information: N/A

### 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:** 07/15/2022



**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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