

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Chroma Optimizer Wide Format Ink Cartridge for Canon PFI-1700
Part number: CNMPFI1700COWF

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: GHS Classification in accordance with 29 CFR 1910.1200 - Reproductive Toxicity: Category 2. STOT-SE: Category 1. Hazard Statement: Suspected of damaging fertility or the unborn child. Causes damage to organs if swallowed (Kidney, central nervous system). Read SDS before using. Precautionary Statements: PREVENTION: P270: Do not eat, drink or smoke when using this product. P264: Wash hands thoroughly after handling. P280: Wear protective gloves. P261: Avoid breathing dust/fumes/gas/mist/vapors/spray. P273: Avoid release to the environment. DISPOSAL: P501: Dispose of contents/container to an approved waste disposal plant.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: GHS Classification in accordance with 29 CFR 1910.1200 - Reproductive Toxicity: Category 2. STOT-SE: Category 1.

Risk Phrases: N/A

Safety Phrases: Signal Word: Danger. Contains Glycerol (56-81-5), Ethylene Glycol (107-21-1).

2.3 OTHER HAZARDS

PBT or vPvB: This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Glycerol	56-81-5	10-15	20 mg/m3	10 mg/m3	NIOSH: 15 mg/m3 TWA
Ethylene Glycol	107-21-1	<10		10 mg/m3	

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. Inhalation of vapor is not expected to be significant routes of exposure for this product under normal use conditions. Respiratory irritation may occur, if persists seek medical attention.
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 plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. 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:	Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:	Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.
Delayed Symptoms from Exposure:	Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Use dry chemical, CO2, water spray (fog) or foam.
Extinguishing Media Not to be Used: Waterjet.

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Hazardous Thermal Decomposition Products: Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
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

Use all necessary personal protective equipment.

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, 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: Clear, slightly yellow liquid.
Color:	Clear
Odor:	No data available.
Odor threshold:	N/A
Boiling point:	Above 35°C
Melting point:	Not determined
Flash point:	Above 93.3°C
Explosion limits:	N/A
Relative density:	No data available.
Auto-ignition temperature:	Not determined.

9.2 OTHER INFORMATION

Solubility (water): Soluble.

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

Mixtures:	Water based inkjet ink (Mixture)
Acute Toxicity:	Glycerol (CAS 56-81-5) Oral LD50 (Rat): 12,600 mg/kg. Inhalation LC50 (Rat): > 570 mg/m ³ / 1hr. Dermal LD50 (Rabbit): > 10g/kg. Skin irritation: slight. Eye irritation: very slight. Ethylene Glycol (CAS 107-21-1): Oral LDLo (Humans): 1,600 mg/kg. Oral LD50 (Rat): 4,700 mg/kg. Inhalation (Rat): 2.5 mg/l / 6hr. Dermal LD50 (Rabbit): 10,607 mg/kg. Dermal LD50 (Rat): 10,600 mg/kg. Skin irritation: Mild skin irritation. Sensitization (human): none. Sensitization (Guinea pig): none. Eye irritation: none.
Skin Corrosion/Irritation:	Expected to be a low hazard for recommended handling.
Serious Eye Damage:	May cause transient irritation.
Inhalation:	Expected to be a low hazard for recommended handling.
Sensitization:	N/A
Mutagenicity:	Not a suspected mutagen.
Carcinogenicity:	American Conference of Governmental Industrial Hygienists (ACGIH); International Agency for Research on Cancer (IARC); U.S. National Toxicology Program (NTP); U.S. Occupational Safety and Health Administration (OSHA): No component of this product present at greater levels than or equal to 0.1% is identified as a carcinogen or potential/anticipated/confirmed human carcinogen by ACGIH, IARC, NTP, and/or OSHA.
Reproductive Toxicity:	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	Can cause kidney damage.
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	N/A
Test Data on Mixture:	N/A
Not Meeting Classification:	N/A
Routes of Exposure:	Skin absorption, breathing, ingestion, eye contact.
Interactive Effects:	N/A
Absence of Specific Data:	N/A
Mixture vs Substance Data:	N/A

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	The following properties are ESTIMATED from the components of the preparations. This product has not been tested for environmental effects. Potential Toxicity: Toxicity to fish (LC50): > 100mg/l estimated. Toxicity to daphnia (LC50): > 100mg/l estimated.
12.2 Degradability:	Not readily biodegradable.
12.3 Bioaccumulation Potential:	No data available.
12.4 Mobility in Soil:	No information available.
12.5 PBT & vPvB Assessment:	N/A
12.6 Other Adverse Effects:	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:** N/A
- 14.2 **Shipping Name:** None. Not regulated under United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID.
- 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:** US E
- EPA Regulatory Information:** US EPA TSCA Inventory US EPA TSCA 12(b): All ingredients are listed or exempt from listing.
- CERCLA Reportable Quantity:** No components of this product are subject to the SARA section 302 (40 CFR 355) reporting requirements.
- 15.2 **Superfund Information:**
- Hazard Categories:**
- Immediate:** N/A
- Delayed:** N/A
- Fire:** NFPA Rating: Health = 1 Fire = 1 Reactivity = 0
- Pressure:** N/A
- Reactivity:** N/A
- Section 302 - Extremely Hazardous:** Ethylene glycol.
- Section 311 - Hazardous:** N/A
- 15.3 **State Regulations:** CALIFORNIA PROPOSITION 65 INFORMATION: This product contains no California Proposition 65 regulated chemicals.
- 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: 01/25/2021

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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