

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: High Yield Yellow Wide Format Ink Cartridge for HP C4848A (HP 80)
Part number: HPC4848AWF

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: This product is classified and labeled according to Regulation (EC) No.1272/2008 as ammended. Hazard Statements: Contact with skin and eyes may result in irritation. Health Hazards: Serious eye damage/eye irritation-Category 1. H813 - Causes serious eye damage. Precautionary Statements: P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to environment. P305 + P351 + P338 - If in eyes: rinse cautiously with water for 15 min. Remove contact lenses, if present and easy to do and rinse for another 15 min. Storage: Store in 15-30 Deg. Celsius. Keep away from direct sunlight. Disposal: Dispose of contents/container in accordance with local and federal regulations.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if swallowed (Stomach).

Risk Phrases: N/A

Safety Phrases: Signal Word: Danger

2.3 OTHER HAZARDS

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Water	7732-18-5	1-75			EC No: 231-18-5
Proprietary Organic Material	Trade Secret	1-15			
Proprietary Dyes	Trade Secret	1-5	25 mg/m3 TWA(total)	25 mg/m3	
Glycerin	56-81-5	1-20	15 mg/m3 TWA (total) 5 mg/m3 TWA (respirable fractions)	10 mg/m3	EC No: 200-289-5
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	0.1 - 1			
Ethoxylated tetramethyldecynediol	9014-85-1	0.1 - 1			
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0.05			
2-methyl-2H-isothiazol-3-one	2682-20-4	< 0.05			

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:	N/A

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

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: 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, 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: Yellow liquid.
Color:	Yellow
Odor:	No data available.
Odor threshold:	N/A
Boiling point:	Not determined
Melting point:	Not determined
Flash point:	None
Explosion limits:	N/A
Relative density:	No data available.
Auto-ignition temperature:	Not determined

9.2 OTHER INFORMATION

Specific Gravity: 1. Solubility (Water): Soluble. pH 3.5-5.

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:	N/A
Acute Toxicity:	Component Analysis - LD50/LC50: The components of this material have been reviewed in various sources and the following selected endpoints are published: 1,5-Pentanediol (CAS 111-29-5): Oral LD50 (Rat): 2 g/kg, Dermal LD50 (Rabbit): >20 mL/kg, Skin irritation: none, Eye irritation: none. 2-Pyrrolidinone (CAS 616-45-5): Oral LD50 (Rat): > 3,200 mg/kg, Oral LD50 (Mouse): > 3,200 mg/kg, Inhalation LC50 (Rat): 0.061 mg/l / 8 hr, Inhalation LC50 (Rat): >80 ppm / 8 hr (no deaths occurred), Dermal LD50 (Guinea pig): 1 - 5 mL/kg, Dermal LD50 (Rabbit): > 2,000 mg/kg (no deaths occurred), Skin irritation: none, Sensitisation (Guinea pig): negative, Eye irritation: moderate. 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (CAS 77-99-6): Oral LD50 (Rat): 14,100 mg/kg, Oral LD50 (Rat): 14,100 mg/kg, Inhalation LC50 (Rat): > 0.29 mg/l / 4 hr, Dermal LD50 (Guinea pig): > 2,710 mg/kg, Skin irritation: No skin irritation, Eye irritation: none. 1,2-Hexanediol (CAS 6920-22-5): Oral LD50 (female Rat): 6,682 mg/kg, Oral LD50 (male Rat): 6,682 mg/kg, Skin irritation: No skin irritation, Eye irritation: slight to moderate. Alcohols, C12-14-secondary, ethoxylated (CAS 84133-50-6): Oral LD50 (Rat): 3,000 mg/kg, Oral LD50 (Rat): 2,100 mg/kg, Dermal LD50 (Rabbit): 2,000 mg/kg, Skin irritation: irritating, Eye irritation: Irritating to eyes. Ethoxylated tetramethyldecynediol (CAS 9014-85-1): Oral LD50 (Rat): 6,300 mg/kg, Inhalation LC50 (Rat): > 20 mg/l / 1 hr, Dermal LD50 (Rabbit): > 2,000 mg/kg (Highest dose tested - no evidence of absorption at this dose level.), Skin irritation: Mild skin irritation, Eye irritation: severe. 1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5): Oral LD50 (Rat): 1,020 mg/kg.
Skin Corrosion/Irritation:	Expected to be a low hazard for recommended handling.
Serious Eye Damage:	Causes serious eye irritation.
Inhalation:	Based on the available data, the classification criteria are not met.
Sensitization:	Based on the available data, the classification criteria are not met.
Mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogenicity:	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.
Reproductive Toxicity:	Based on the available data, the classification criteria are not met.
STOT - Single Exposure:	Based on the available data, the classification criteria are not met.
STOT - Multiple Exposure:	Based on the available data, the classification criteria are not met.
Ingestion:	N/A
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:	N/A
Interactive Effects:	N/A
Absence of Specific Data:	N/A
Mixture vs Substance Data:	N/A

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	No data available.
12.2 Degradability:	No data available.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	N/A
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:	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:	HMIS Rating: Health = 1 Flamability = 1 Instability = 0
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: US EPA TSCA 12(b) : All ingredients are listed or exempt from listing. Does not contain listed chemicals

CERCLA Reportable Quantity: N/A

15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

Fire: NFPA Rating: Health = 2 Fire = 1 Instability = 0

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: 12/04/2020

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:

DISCLAIMER

All trademarks and models referenced are property of their respective holders and are used for identification purposes only. These products are not sponsored by, affiliated with, manufactured by or distributed by the named manufacturers. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.