1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Light Cyan Wide Format Ink Cartridge for T412011

Part number: EPS412011WF

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 of the mixture: Not classified as hazardous. Acute Tox.4 (Oral) H302. Hazard Statements:H302- Harmful if swallowed. Precautionary Statements: P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 - Rinse mouth. P501 – Dispose of contents/container to an approved waste disposal plant.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Classification According to Directive 67/548/EEC and GHS: Diethylene glycol Xn; R22, Acute Tox. 4 (H302).

Risk Phrases: N/A

Safety Phrases: Signal Word: Warning

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	1-25	20 mg/m3	10 mg/m3	EC NUMBER: 200-289-5; NIOSH: 15 mg/m3 TWA
Diethylene glycol	111-46-6	1-20		10 mg/m3	EC Number: 203-872-2
Pigment	Trade Secret	1-5			

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 plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.
Ingestion:	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 medica 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: Alcohol-resistant foam, dry chemical, carbon dioxide(CO2), water spray.

Extinguishing Media Not to be Used: N/A

5.2 **SPECIAL HAZARD**

Unusual Fire/Explosion Hazards: N/A

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 personal protective equipment. Gloves and eye/face protection.

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: Small spillage: 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. Large Spillage: 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:	Light Cyan
Odor:	Slight
Odor threshold:	N/A
Boiling point:	Not determined
Melting point:	Not determined
Flash point:	>100 degree Celsius
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

9.2 **OTHER INFORMATION**

SPECIFIC GRAVITY (H20=1): 1.00 – 1.10. pH: 7-9.

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

Mixtures:	Water based inkjet ink (Mixture)
Acute Toxicity:	Overexposure may cause mild irritation of eyes. Overexposure of the skin may cause irritation, redness, burning and skin sensitization. Breathing mist or vapors may cause respiratory tract irritation.
Skin Corrosion/Irritation:	Repeated or prolonged contact may cause irritation. Slightly irritating (P.I.I = 2.0) (rabbit)
Serious Eye Damage:	May cause eye irritation.
Inhalation:	Repeated or prolonged contact may cause respiratory tract irritation.
Sensitization:	N/A
Mutagenicity:	Not a suspected mutagen.
Carcinogenicity:	No classification regarding to human carcinogenic classification.
Reproductive Toxicity:	Not a suspected reproductive toxin.
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	Harmful if swallowed. May cause gastrointestinal irritation.
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:** Fish: LC50: 75200 mg/L Duration: 96 hrs Method: 92/69/EEC C.1, OECD-Guideline No. 203

12.2 **Degradability:** N/A

12.3 **Bioaccumulation Potential:** Log Pow: -1.98(Diethylene Glycol)

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: N/A

CERCLA Reportable Quantity: N/A

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: N/A

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: 12/09/2020

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:

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