1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Black Wide Format Inkjet Cartridge for Mimaki ES3 (SPC-0440K)

Part number: MIMSPC0440KWF

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: Classifications: Carcinogenicity(Category 2). Respiratory or skin sensitization.(Category 1). Chronic aquatic toxicity. (Category 2). Serious Eye Damage/Eye Irritation(Category 1). Reproductive toxicity(Category 1B). Specific target organ toxicity, single exposure(Category 1 blood, central nervous system). Specific target organ toxicity, single exposure(Category 3 respiratory tract). Specific target organ toxicity, repeated exposure(Category 1 Lungs).Hazard Statements: H227: Combustible liquid. H318: Causes serious eye irritation. H335: May cause respiratory tract irritation. H360: May damage fertility or the unborn child. H370: Causes damage to blood, central nervous system. H371:May cause damage to kidneys and hematopoietic system. H372: Causes damage to organs. H412: Harmful to aquatic life. Precautionary Statements: PREVENTION: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust/fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in well-ventilated areas. P272: Contaminated work clothing must not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves. RESPONSE: P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for sevral minutes, remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF Exposed or concerned: Get medical attention. P302+P352: IF ON SKIN: Wash with plenty of water. P321: Specific treatment: Refer to section 4 of the SDS for first aid instructions. P333+P313: If skin irritation or rash occurs, seek medical attention. P362+364: Take off contaminated clothing and wash before reuse. P391: Collect spillage. STORAGE: P405:Store locked up. DISPOSAL: P501: Dispose of contents/container in accordance with all regulations.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Symbol(s): Health Hazard, Irritant, Corrosive

Risk Phrases: N/A

Safety Phrases: Signal word: DANGER.

2.3 OTHER HAZARDS

PBT or vPvB: No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
2-Butoxyethyl Acetate	112-02-02	1-60		20 ppm	NIOSH: 5 ppm
Lactone	Trade Secret	1-25			
Proprietary Resin	Trade Secret	1-10			
Carbon Black	1333-86-4	1-10	3.5 mg/m3	3 mg/m3	NIOSH: 3.5 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. 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 nduce 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: N/A
Delayed Symptoms from Exposure: N/A

4.3 **IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA**

Recommended Extinguishing Media:	Dry chemical, Carbon Dioxide(CO2), water may be ineffective.
Extinguishing Media Not to be Used:	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

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:	Wear P.P.E as recommended in this document. Use spill barriers to avoid spreading and block drains. Avoid using water until all liquid material has been absorbed. Apply an absorbent over the spill and collect. Place in containers or bags for further processing. Non-hazardous waste. Non-RCRA waste. May stain concrete surfaces. Scrub with soap and water or pressure wash to remove.

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:	Solvent odor
Odor threshold:	N/A
Boiling point:	Not determined
Melting point:	Not determined
Flash point:	>65°C
Explosion limits:	No data available.
Relative density:	Not determined.
Auto-ignition temperature:	No data available.

9.2 **OTHER INFORMATION**

Density: .975 +/- 0.05

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: N/A
Skin Corrosion/Irritation: Skin irritant
Serious Eye Damage: Eye irritant
Inhalation: No data available
Sensitization: No data available
Mutagenicity: Not a suspected mutagen.
Carcinogenicity: Chronic toxicity effects unknown.
Reproductive Toxicity: This product has not been tested, however based on GHS Hazard statement, the product contains a chemical that may damage fertility or unborn child.
STOT - Single Exposure: No data available.
STOT - Multiple Exposure: This product contains a chemical that is classified as a specific target organ toxin for repeated exposure. Lungs, blood, kidnes are identified.
Ingestion: Do not ingest. May be harmful if swallowed.
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:** This product contains a chemical that is classified in accordance with GHS hazard assessment as being toxic to aquatic life with long-lasting effects

12.2 **Degradability:** No data available.

12.3 **Bioaccumulation Potential:** No data available.

12.4 **Mobility in Soil:** No data available.

12.5 **PBT & vPvB Assessment:** No data available.

12.6 **Other Adverse Effects:** No data available.

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:** UN Number: UN3082

14.2 **Shipping Name:** Environmentally hazardous substance, liquid: NOS(2-Phenoxyethyl Acrylate)

14.3 **Hazard Class:** ADR, IMDG, IATA - Class 9

14.4 **Packing Group:** ADR, IMDG, IATA - III

14.5 **Environmental Hazards:** IATA, IMDG, ADR-Marine pollutant, not classified as a marine pollutant by USDOT for transport by road within the United States.

14.6 **User Precautions:** N/A

14.7 **Bulk Transport:** N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** OSHA: This product is classified as an OSHA hazardous material.

EPA Regulatory Information: N/A

CERCLA Reportable Quantity: CERCLA: SARA Hazard Category Section 313: Acute Hazard. *Indicates toxic chemical(s) subject to the reporting requirements of the Section 313 of Title III and of 40 CFR 372.

15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

Fire: NFPA Rating: Health = 3 Fire = 2 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: 12/31/2020

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.