1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 **PRODUCT IDENTIFIER**

Product name: Black Ink Cartridge for HP 51645A (HP 45)

Part number: HP51645A

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. This product is a black liquid with a mild odor.

2.2 **LABEL ELEMENTS**

Applicable Pictograms:



Danger Indications: Potential routes of exposure are skin and eye contact, ingestion and inhalation. Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). In this formulation, Carbon black does not present this carcinogenic risk due to it being in a bound liquid form. Complete toxicology reports are not available for this specific formulation. None of the other ingredients in this formulation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP, or OSHA.

Risk Phrases: N/A

Safety Phrases: N/A

2.3 **OTHER HAZARDS**

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Proprietary	Proprietary	Proprietary	TWA: 300 mg/m3, 100 ppm	TWA: 20 ppm	NIOSH REL: (Ceiling) 150 mg/m3 (TWA) 50 ppm. IDLH: 1400 ppm (10% LEL)

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:	Not expected to cause respiratory inhalation. If adverse effect occurs, move to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Eye contact:	Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water for at least 5 minutes. Remove contact lenses (if present and easy to do). Continue rinsing. Obtain medical attention if redness, pain or irritation occurs.
Skin contact:	Not expected to cause skin inflammation. Remove contaminated clothing. Rinse effected area with water. Obtain medical attention if irritation develops or persists.
Ingestion:	May upset stomach. Do not induce vomiting. Drink plenty of water to dilute. Get medical attention if you feel unwell. See Section 11.

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: N/A

Delayed Symptoms from Exposure: N/A

4.3 **IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED**

N/A

5. FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA**

Recommended Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Extinguishing Media Not to be Used: Do not use a heavy stream of water as this may spread the 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**

For non-emergency and emergency personnel: See section 8 – personal protection. Protective gloves and safety goggles not necessary, but suggested.

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 appropriate protective clothing as described in Section 6.1. Dike spill and absorb with an inert material. Collect into closable containers for proper disposal. Report spill as required by local and federal regulations.

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:	Mild odor.
Odor threshold:	N/A
Boiling point:	N/A
Melting point:	N/A
Flash point:	Not Below 100°C
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

9.2 **OTHER INFORMATION**

SPECIFIC GRAVITY (H20=1): 0.98 – 1.05 / VAPOR PRESSURE: No data available / VAPOR DENSITY (Air=1): Heavier than air / SOLUBILITY IN WATER: Complete / FREEZING POINT: No data available / COEFFICIENT of WATER/OIL: No data available / EVAPORATION RATE: < Butyl Acetate / VISCOSITY (cP): 3 - 4 / pH: 7.5 – 9.5

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:	Acute and Chronic Toxicity: Component Analysis - LD50. The components of this material have been reviewed in various sources and the following selected endpoints are published: Oral LD50 Rat 1120 mg/kg body weight; Dermal LD50 Rabbit 11890 mg/kg body weight Oral LD50 Rat 700 mg/kg body weight; Dermal LD50 Rabbit 3402 mg/kg body weight; Inhalation LD50 Rabbit >8000 ppm4h.
Skin Corrosion/Irritation:	Not expected to cause irritation
Serious Eye Damage:	May cause minimal eye irritation
Inhalation:	Overexposure may cause headache
Sensitization:	N/A
Mutagenicity:	N/A
Carcinogenicity:	None of the components of this product are listed as a carcinogen by NTP, IARC or OSHA.
Reproductive Toxicity:	N/A
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	May cause upset stomach
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:** This product has not been tested for ecological effects

12.2 **Degradability:** Readily Biodegradable per OECD 301D, Closed Bottle Test

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:** N/A

14.2 **Shipping Name:** Not Regulated

14.3 **Hazard Class:** Non-Hazardous

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:** OSHA HAZARD CLASSIFICATION: Irritant, target organ effects

EPA Regulatory Information: Not regulated

CERCLA Reportable Quantity: Not regulated

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:** California Prop 65: Carbon Black (CAS 1333-86-4) N-Methyl Pyrrolidone (CAS 872-50-4). Massachusetts RTK – Substance List: Carbon Black (CAS 1333-86-4) N-Methyl Pyrrolidone (CAS 872-50-4). New Jersey Worker and Community Right-to-Know Act: Carbon Black (CAS 1333-86-4) N-Methyl Pyrrolidone (CAS 872-50-4). Pennsylvania Worker and Community Right-to-Know Act: Carbon Black (CAS 1333-86-4) N-Methyl Pyrrolidone (CAS 872-50-4).

15.4 **Other Regulatory Information:** CERCLA HAZARDOUS SUBSTANCE (40CFR 116): Not Applicable. WHMIS CLASSIFICATION:

Not Applicable.

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: 02/02/2026

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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