



1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

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

Part number: HP51645A

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: This mixture is an ink used in copiers/printers.

1.3 **SUPPLIER DETAILS**

Supplier: Clover Technologies 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: N/A

2. HAZARDS IDENTIFICATION

2.1 INFORMATION and CLASSIFICATION

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

2.2 **LABEL ELEMENTS**

Applicable Pictograms:

NO PICTOGRAM

Danger Indications: WARNING! Eye and skin irritant. May be absorbed through the skin to cause effects similar to inhalation.

Inhalation of vapors may cause eye irritation, headache, nausea, confusion and abdominal pain.

Ingestion may cause gastrointestinal irritation and other harmful effects.

Risk Phrases: N/A Safety Phrases: N/A

2.3 OTHER HAZARDS

PBT or vPvB: N/A

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^{*} This document provides safety-related information about toner contained in print cartridge for use in laser printer





3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
2-Pyrrolidone	616-45-5	5-10			
1,4 Butanediol	110-63-4	1-5			
Carbon Black	1333-86-4	1-10			

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 toner powder contained in specially designed container inside of the print cartridge.

4. FIRST-AID MEASURES

4.1 FIRST AID MEASURES

4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

Inhalation: Remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is

difficult have qualified personnel administer oxygen. Get medical attention.

Eye contact: Flush eyes with water for 15 minutes while lifting the upper and lower lids. Get medical attention.

Skin contact: Remove contaminated clothing. Wash contact area thoroughly with soap and water until no traces

of the chemical remains. Get medical attention if irritation develops or persists. Launder

contaminated clothing before reuse. Discard contaminated clothing such as shoes that cannot be

decontaminated.

Ingestion: Call a poison control center or doctor immediately for treatment advice. If conscious, give one 8

ounce glass of water to dilute. DO NOT induce vomiting unless directed by medical personnel. Do not give anything by mouth to or induce vomiting in a person who is unconscious or convulsing.

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

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5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Use media appropriate to the surrounding fire.

Extinguishing Media Not to be Used: None known.

5.2 **SPECIAL HAZARD**

Unusual Fire/Explosion Hazards: None known. Extinguishing Media Not to be Used: None known.

5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective cloting an 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

PERSONAL PROTECTIVE EQUIPMENT: Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice. PROTECTIVE CLOTHING: Use personal protective equipment to minimize exposure to skin and eye.

6.1.2 ADDITIONAL FIRST AID INFORMATION

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

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 6.1.1. Dike spill and absorb

with inert material. Collect into closable containers for proper disposal. Report spill as

required by local and federal regulations.

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7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed, 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 2).

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 splashproof 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.

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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: 215°F / 100°C

Melting point: N/A
Flash point: None
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 VAPOR PRESSURE: 17.5 mmHg VAPOR DENSITY (Air=1): Heavier than air SOLUBILITY IN WATER: Complete FREEZING POINT: Not available COEFFICIENT of WATER/OIL: Not available EVAPORATION RATE: < Butyl Acetate pH: 7.5 - 8.5

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

polymerisation 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 oxidising materials

10.6 Hazardous Decomposition: Will not occur.

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11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures: N/A
Acute Toxicity: N/A

Skin Corrosion/Irritation: Prolonged contact may cause skin irritation with redness, swelling and cracking. Widespread

contact may cause absorption with symptoms similar to inhalation.

Serious Eye Damage: May cause irritation with redness, pain and blurred vision.

Inhalation: Vapors or mists may cause upper respiratory tract irritation with coughing, headache, nausea,

confusion and giddiness.

Sensitization: N/A
Mutagenicity: N/A

Carcinogenicity: Carbon black is listed as "Possibly Carcinogenic to Humans" (Group 2B) by IARC.

Reproductive Toxicity: N/A

STOT - Single Exposure: Individuals with chronic respiratory and skin diseases may be at increased risk from exposure to

this material.

STOT - Multiple Exposure: Prolonged or repeated exposure may cause dermatitis. 2-pyrrolidone has been found to cause

birth defects in studies with laboratory animals. Carbon black has been found to be mutagenic is

some test systems.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Large amounts

may cause narcosis, incoordination and damage the kidneys.

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: N/A

12.2 **Degradability:** N/A

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

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13. DISPOSAL CONSIDERATIONS

Disposal Information:

Dispose as a solid waste 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:

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:** HMIS Rating: Health = 1 Fire = 0 Reactivity = 1

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: 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 = 0 Reactivity = 0

Pressure: N/A
Reactivity: N/A

Section 302 - Extremely Hazardous: N/A

Section 311 - Hazardous: Acute health, chronic health

15.3 **State Regulations:** CALIFORNIA PROPOSITION 65 INFORMATION: This product contains carbon black.

California lists carbon black (airborne, unbound particles of respirable size) as known to cause cancer. This product contains no unbound carbon black. Therefore, no warning is

required.

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

Class D - Division 2 - Subdivision B (Toxic material causing other toxic effects)

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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

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application

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Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial	NIOSH = National Institute for Occupational Safety and Health		
Hygienists			
CERCLA = Comprehensive Environmental Response Compensation	OSHA = Occupational Health and Safety Administration		
and Liability Act			
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		

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