

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Black Printer Ribbon for NEC 50-060 (EA)
Part number: R5510

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: Dot Matrix Printers, Typewriters or Calculators

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: Causes mild skin irritation. Causes eye irritation. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Severely hydro-treated naphthenic distillate (CAS: 64742-52-5) contains less than 3% DMSO extract as measured by IP346. Classification as a carcinogen does not apply.

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
ABS AND FABRIC					
INK					This is a liquid color type ink consisting of oleic acid, fatty acid oils, mineral oil, colorants, and additive oils for nylon fabric for printing..

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:	N/A
Eye contact:	Flush eyes thoroughly with water. Seek medical attention if irritation persists
Skin contact:	For prolonged skin contact, wash the affected area with mild soap and water. Remove and launder contaminated clothing before reuse.
Ingestion:	If ingested, DO NOT induce vomiting. Seek medical attention.

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 foam, CO2, or dry chemical.
Extinguishing Media Not to be Used: High pressure water jet.

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Treat as oil fire. Spray water to cool closed containers to prevent pressure buildup and possible auto ignition on exposure to extreme heat. Carbon monoxide, carbon dioxide, smoke.
Extinguishing Media Not to be Used: Do not use water.

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

Wear self-contained breathing apparatus when fighting fire in confined area.

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 gloves to avoid staining hands. Prevent spills from entering storm sewers or drains. Small spills: Soak up with paper or other absorbent material. Large spills: Contain and collect with dry inert, absorbent material. Disposal: Contact a licensed professional waste disposal service to dispose of this material in accordance with applicable local, state, and national environmental regulations. Do not contaminate the ground or water with waste. Contaminated packaging: Completely empty container and dispose of properly as unused 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: Black colored liquid
Color:	Black
Odor:	Slightly pungent odor
Odor threshold:	N/A
Boiling point:	N/A
Melting point:	<0°C (32°F)
Flash point:	>260°C° (500°F) COC
Explosion limits:	N/A
Relative density:	0.96 @ 25°C
Auto-ignition temperature:	N/A

9.2 **OTHER INFORMATION**

WATER SOLUBILITY: Insoluble VISCOSITY: 600 – 3800 cps. CHEMICAL STABILITY: Stable under normal temperatures and pressures. INCOMPATIBLE MATERIALS: Oxidizing agents.

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:	N/A
Skin Corrosion/Irritation:	N/A
Serious Eye Damage:	N/A
Inhalation:	N/A
Sensitization:	N/A
Mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive Toxicity:	N/A
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
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:	SKIN: Repeated exposure may cause skin irritation. EYES: May cause discomfort. INGESTION: Material can be aspirated into lungs causing harm.
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

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 a regulated article under ADR/RID, DOT, IATA, or IMDG.
- 14.2 **Shipping Name:** N/A
- 14.3 **Hazard Class:** HMIS Rating: Health = 1 Flammability = 1 Physical Hazard = 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:** N/A
 - Pressure:** N/A
 - Reactivity:** N/A
- Section 302 - Extremely Hazardous:** N/A
- Section 311 - Hazardous:** Delayed (chronic) health effects
- 15.3 **State Regulations:** N/A
- 15.4 **Other Regulatory Information:** SARA 313 Classification: This product does not contain any substances subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. California Proposition 65: This product does not contain listed substances which the state of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute. RoHS Directive: This ink does not contain any RoHS materials. These materials include lead, cadmium, hexavalent chromium, mercury, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE). These values are based on information available from suppliers and not by actual laboratory analysis of finished product

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

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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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