



MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : INK-M40, M41, M45
COMPANY : Samsung Electronics Company
416, Maetan-3Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742
TELEPHONE NO. : 82-31-200-8311
EMERGENCY TELEPHONE NO. : 82-31-200-8311

[2.COMPOSITION / INFORMATION ON INGREDIENTS]

This ink cartridge contains an aqueous ink formulation.

Component	CAS No.	% by weight	Workplace Limits (PEL, TLV)
carbon black	1333-86-4	<5	not established
2-pyrrolidone	616-45-5	<10	not established
trade secret organic materials	not specified	<10	not established
water	7732-18-5	balance	not established

[3.HAZARDS IDENTIFICATION]

3.1 Primary Routes of Exposure
skin, eye, oral, and inhalation

3.2 Acute Health Hazards

Skin: May cause slight skin irritation characterized by redness and swelling after prolonged contact. Indications may be masked by color of ink.

Eye: May be mildly irritating.

Oral: May cause stomach upset after ingestion.

Inhalation: Prolonged inhalation may result in irritation to the respiratory tract.

3.3 Chronic Health Hazards
None noted.

3.4 Carcinogenicity

Carbon Black has been classified by the International Agency for Research on Cancer (IARC) as Group 2B (possible human carcinogen). Neither this component nor the other ingredients have been classified as carcinogens according to ACGIH, EPA, EU, MAK and OSHA criteria. According to IARC, printing inks are not classifiable as to their carcinogenicity to humans (Group 3).



[4.FIRST-AID MEASURES]

4.1 *Emergency First Aid Procedures*

First aid for skin

Wash affected areas thoroughly with soap and water. Clothing should be laundered before reuse. **Seek medical attention if skin irritation persists.**

First aid for eyes

Contact with eyes may cause mild irritation. Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. **Seek medical attention if eye irritation persists.**

First aid for ingestion

Ingestion of ink may cause stomach upset. Seek medical advice **Seek medical attention if stomach upset persists.**

First aid for inhalation

Remove to fresh air.

[5.FIRE-FIGHTING MEASURES]

Flash point: >141 oF, >61 oC	Autoignition temperature: Not determined
Extinguishing media: Water, dry chemical, carbon dioxide, foam Unusual fire and explosion hazards: no special hazards known	Special fire fighting procedures: none

[6.ACCIDENTAL RELEASE MEASURES]

Spill or Leak Procedures

No special procedures are indicated. Use absorbent towels to wipe up ink. Rinse area with damp cloth to remove remaining traces of ink.

[7.HANDLING AND STORAGE]

No special handling or storage required.

KEEP OUT OF THE REACH OF CHILDREN

Storage temperature: 59° – 95 °F; 15° – 35 °C	Shelf life : 1 year
Handling and storage precautions: do not use inkjet cartridge when frozen. Ensure inkjet cartridge exterior is dry before inserting into printer.	Special sensitivity: none

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

No special eye or skin protection is needed for cleanup of spills. Standard eye and skin protection for laboratory chemical safety is required.



[9.PHYSICAL AND CHEMICAL PROPERTIES]

Appearance: black liquid	Physical state: liquid at room temperature
pH: 8.0 – 9.3	Solvent content: <10%
Solubility in water: soluble	Vapor density: >1 (air = 1.0)
Odor: not applicable	Vapor pressure: not applicable

[10.REACTIVITY AND STABILITY]

Stability: stable under normal storage conditions	Thermal decomposition products: Oxides of carbon/nitrogen, water
Incompatibilities: strong oxidizers	Hazardous polymerization: none

[11.TOXICOLOGICAL INFORMATION]

Refer to sections 3. Hazards Identification and 4. First Aid Measures

[12.ECOLOGICAL INFORMATION]

No data available

[13.DISPOSAL CONSIDERATIONS]

Dispose in accordance with all applicable federal, state and local laws

[14.TRANSPORTATION INFORMATION]

Not a regulated article under DOT, IATA, ADR or RID

[15.REGULATORY INFORMATION]

According to EU Directive 88/379/EEC, this product is not classified as dangerous and therefore no hazard labels are required. For other countries, including the USA, no product label would be required.

All components are on the TSCA Inventory.

Contains triethylene glycol monoethyl ether (CAS 112-50-5); isopropanol (CAS 67-63-0) and tetrahydrofuran (CAS 109-99-9) which are listed chemicals under TSCA 12(b) Export Notification.

[16.OTHER INFORMATION]

Date prepared: July 11 2000
Supersedes: June 15 2000

DISCLAIMER: This Product Safety Information Sheet is offered without charge to the customers of Hewlett-Packard. Data is the most current known to Hewlett-Packard at the time of preparation and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application.