



MATERIAL SAFETY DATA SHEET

[1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : INK-M55
 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]

COMPONENT	PERCENT (wt.)	CAS #	OSHA PEL	ACGIH TLV
Carbon Black	1-6	1333-86-4	3.5 mg/m3 (1)	3.5 mg/m3 (1)
Acrylic Terpolymer	0.1-2	(2)	(3)	(3)
Water Soluble Organic Solvents	10-20	(2)	(3)	(3)
Hydroxylated Alkane	1-10	(2)(4)	(3)	(3)
Acrylic Resin	0.1-5	(2)	(3)	(3)
Water	>55	7732-18-5	(3)	(3)

Notes: (1) Total dust (measured as carbon black).
 (2) Trade secret of patented molecule.
 (3) Specific workplace exposure limits have not been established.
 (4) New Jersey Trade Secret Registration Number (NJTSRN) 80100451-5004.

[3.HAZARDS IDENTIFICATION]

The following information is based on testing of the ink and on the characteristics of component chemicals:

Primary Routes of Entry: Skin contact, ingestion of ink.

Signs and Symptoms of Exposure : Ink stains on skin or mucus membranes (mouth, eyes & nose) may cause discomfort.

Medical Conditions Aggravated by Exposure : None known at intended levels of use.

POTENTIAL HEALTH EFFECTS:

Inhalation:	Short Term Exposure	--	If ink mist is inhaled, respiratory tract irritation may occur.
	Long Term Exposure	--	No adverse chronic effects expected.
Skin Contact:	Short Term Exposure	--	Ink may be slightly irritating to the skin.
	Long Term Exposure	--	No adverse chronic effects expected. Not a dermal sensitizer.
Eye Contact:	Short Term Exposure	--	Not an eye irritant.
	Long Term Exposure	--	No adverse chronic effects expected.
Ingestion:	Short Term Exposure	--	Low oral toxicity.
	Long Term Exposure	--	No adverse chronic effects known or expected, but based on component characteristics, gastrointestinal effects, liver and kidney toxicity, and CNS effects are possible if large quantities of ink are repeatedly ingested.



[10.REACTIVITY AND STABILITY]

Conditions to Avoid: None known.

Incompatibilities: None known.

Hazardous Decomposition: Oxides of carbon, acid gases, low molecular weight organics.

Polymerization: This product will not polymerize.

[11.TOXICOLOGICAL INFORMATION]

Acute Toxicity: Not expected to be acutely toxic; LD50 (oral, rat) expected to be >2000 mg/kg.

Chronic Toxicity: Not expected to be chronically toxic based on component information, volume, concentration, and intended use. Pure carbon black, a minor component of this ink, has been listed by IARC as group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Ink is not listed by IARC, NTP, or OSHA.

[12.ECOLOGICAL INFORMATION]

No data available.

[13.DISPOSAL CONSIDERATIONS]

This product is not a listed or hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded, this product would not be a hazardous waste either by listing or by characteristic. However, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. In accordance with RCRA 40 CFR Sections 264.314 and 265.314, the placement of any liquid in landfills is prohibited. Disposal is subject to local, state and federal regulations.

[14.TRANSPORTATION INFORMATION]

DOT PROPER SHIPPING NAME: Not regulated as hazardous material.

[15.REGULATORY INFORMATION]

All ingredients are registered under the **Toxic Substances Control Act (TSCA)** or under polymer exemption.

All ingredients are exempt, registered or considered registered (polymers) under the **European Inventory of Existing Commercial Chemical Substances (EINECS/ELINCS)**.

Preparation not classified as dangerous (**EU Directives 67/548/EEC; 1999/45/EC**).

All ingredients are listed on or are considered polymers under the **Canadian Domestic Substances List (DSL) or Non Domestic Substances List (NDSL)**.

None of the product ingredients are listed as **Emergency Planning and Community Right-to-Know Act (EPCRA) - Section 302: Extremely Hazardous Substances (EHS)**.

None of the product components are present above the minimum quantities of listed chemicals in **EPCRA Section 313 Supplier Notification**.

This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - **California Proposition 65**.



[16.OTHER INFORMATION]

Disclaimer: Data is most current known to Lexmark at the time of preparation and is believed to be accurate. No warranty as to its accuracy or completeness is expressed or implied.