

IIMAK  
310 Commerce Drive  
Buffalo, New York 14228-2396

## Material Safety Data Sheet

### Black Monochrome Ribbon

#### SECTION 1 *Product Identification and General Information*

**Manufacturer:** IIMAK

**Product Information:** 716-691-6333 (contact Chief R&D Chemist)

**Emergency Phone Number (24 Hour):** Chemtrec 1-800-424-9300 (for chemical emergencies)

**Product Numbers:** Black Monochrome Ribbon

**Chemical Name:** Black Monochrome Ribbon

**Date MSDS Prepared:** 12/15/2005

#### SECTION 2 *Composition/Information on Ingredients*

Contents	Percent by Weight	CAS No.	OSHA PEL	LISTED CARCINOGEN (IARC/OSHA/NTP)
Polyethylene terephthalate	70	25038-59-9	N/A	No
Modified Hydrocarbon Waxes	10 – 30	N/A	Particulates Not Otherwise Regulated*	No
Synthetic Waxes	10 – 30	N/A	Particulates Not Otherwise Regulated*	No
EVA Copolymer	10 – 15	24937-78-8	Particulates Not Otherwise Regulated*	No
Carbon Black	5 – 10	1333-86-4	Particulates Not Otherwise Regulated* 3.5 mg/m <sup>3</sup>  *Nuisance Dust – 15 mg/m <sup>3</sup> and Respirable Dust – 5 mg/m <sup>3</sup>	IARC 2B (see Section 11)

#### SECTION 3 *Hazards Identification*

##### Health Hazard Information (Acute and Chronic):

This product is not considered hazardous to man or the environment under normal conditions of use. These products are articles as defined by OSHA 29CFR 1910.1200, Canadian WHMIS and the EC Directives.

**Appearance:** Product consists of inks and resins coated on plastic film and wound onto a plastic or cardboard core.

**Potential Hazards:** None currently known or expected. The form and intended use of this product should prevent the release of the hazardous components into the air and creating a hazard.

**Inhalation:** This material is not considered an inhalation hazard.

**Ingestion:** Although ingestion is unlikely, this material would irritate the digestive tract.

**Skin Contact:** Skin irritation may occur from prolonged skin contact.

**Eye Contact:** May cause irritation and redness.

**Medical Conditions Aggravated by Exposure:** None currently known.

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**Cancer Information:** Carbon black is the only constituent of the black ink product that is considered to be suspect or known carcinogen, as listed by the IARC. See Section 11, *Toxicological Information*. The IARC, NTP, or OSHA does not list the other constituents as carcinogens.

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SECTION 4 *First-Aid Measures*

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**Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

**Skin Contact:** Wash thoroughly with soap and water.

**Inhalation:** Remove to fresh air. Get medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

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SECTION 5 *Fire-Fighting Measures*

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**Flash Point:** NA

**Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide

**Special Fire Fighting Procedures:** Wear normal fire fighting protective equipment, such as SCBA, in buildings or confined spaces.

**Unusual Fire and Explosion Hazards:** None

**Hazardous Combustion Products:** Burning may produce carbon dioxide, carbon monoxide, oxides of nitrogen, acetaldehyde, methane, ethane, ethylene, toxic gases, and smoke.

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SECTION V6 *Accidental Release Measures*

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**Spill Procedure:** Pick up and store as solid waste.

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SECTION 7 *Handling and Storage*

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There are no special storage or handling procedures required.

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SECTION 8 *Exposure Controls/Personal Protection*

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**Eye Protection:** It is a good industrial hygiene practice to minimize eye contact.

**Respiratory Protection:** No special respiratory protection required.

**Ventilation:** Provide sufficient mechanical ventilation.

**Protective Clothing:** Wear chemical-resistant gloves and protective clothing appropriate for the risk of exposure.

**Work and Hygienic Practices:** Eye wash and shower facility should be available. Practice good hygiene and maintain a clean work environment.

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SECTION 9 *Physical and Chemical Properties*

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**Solubility:** Neither inks nor plastic films are soluble in water.

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SECTION 10 *Stability and Reactivity*

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**Stability:** Stable

**Conditions to Avoid:** None

**Incompatibility (materials to avoid):** None known.

**Hazardous Polymerization:** Will not occur.

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SECTION 11                      *Toxicological Information*

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In its Monograph Volume 65, issued in April 1996, the International Agency for Research on Cancer (IARC) re-evaluated carbon black and concluded that, "there is inadequate evidence in humans for the carcinogenicity of carbon black".

The carbon black used contains less than 0.1% of adsorbed PAHs (polynuclear aromatic hydrocarbons). In non-adsorbed form, some PAHs have been found to be carcinogenic in animal studies. No correlating carcinogenic effect, however, has been observed in humans due to exposure to carbon black. There are still ongoing scientific discussions on the relevance of tumorigenic response in rats to inorganic insoluble particles like carbon black. Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph 65 concluded that there is "sufficient evidence in experimental animal for the carcinogenicity of carbon black".

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SECTION 12                      *Ecological Information*

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No data available at this time.

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SECTION 13                      *Disposal Considerations*

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**Waste Disposal Method:** Dispose of product in accordance with local, state, and federal regulations.

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SECTION 14                      *Transport Information*

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US DOT or IATA/ICAO does not regulate these products as hazardous materials for transportation.

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SECTION 15                      *Regulatory Information*

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**USEPA SARA 311 Hazards Classification:** N/A

**USEPA SARA 313:** This product does not contain chemicals subject to the reporting requirements under SARA Title III, Section 313.

**Hazardous Substance (40 CFR 116):** N/A

**CERCLA Reportable Quantity:** N/A

**WHMIS Classification:** Not a controlled product.

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SECTION 16                      *Other Information*

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**HMIS Hazard Rating:** Health – 0; Fire – 1; Reactivity – 0

**NFPA Hazard Rating:** Health – 0; Fire – 1; Reactivity – 0

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**DISCLAIMER:**

**THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST DATA CURRENTLY AVAILABLE. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AND IIMAK ASSUMES**

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**NO LEGAL RESPONSIBILITY OR LIABILITY RESULTING FROM ITS USE. MATERIALS COMPRISING <1% BY WEIGHT, OR <0.1% BY WEIGHT IF THE CHEMICAL IS A CARCINOGEN, ARE NOT LISTED HEREIN.**

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