



MATERIAL SAFETY DATA SHEET

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SECTION 1 - IDENTIFICATION

PRODUCT NAME: Correctable printer ribbon for Brother Industries

CHEMICAL NATURE: Carbon dispersion in an organic resin system coated onto a polyethylene substrate. Ribbon is contained in a thermoplastic cartridge.

BROTHER PRODUCT NAME: Black correctable film ribbon (Product Code 7020)

SECTION 2 - PRODUCT AND COMPONENT HAZARD DATA

A.	<u>COMPONENTS:</u>	<u>Approx. %</u>	<u>TLV</u>	<u>Cas. Reg. No.</u>
	Polyethylene Base Film	85	* (see section 6-A)	
	Polymer Coating	15		

B. HAZARD DATA:

First Aid: If burned by contact with molten material, cool as quickly as possible with water and see a physician for treatment of burn.

Note to Physicians: Burns should be treated as thermal burns.

SECTION 3 - PHYSICAL DATA

APPEARANCE AND ODOUR:	Black coated film - mild Amine odour.
BOILING POINT:	Not applicable
SOFTENING POINT:	Film >100°C, Coating >50°C
SPECIFIC GRAVITY:	Approx. 1g/cm ³
VAPOUR PRESSURE:	Not applicable
PERCENT VOLATILE BY VOLUME:	Not applicable
VAPOUR DENSITY (AIR=1):	Not applicable
SOLUBILITY IN WATER:	Negligible

MATERIAL SAFETY DATA SHEET

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200°C
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING AGENTS: Water Spray, Dry Chemical, CO₂
SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 5 - REACTIVITY DATA

RIBBON

STABILITY: Stable
INCOMPATIBILITY: Oxidising materials may cause a vigorous reaction
HAZARDOUS DECOMPOSITION PRODUCTS: As with any other organic material, combustion will produce carbon dioxide and probably carbon monoxide.
HAZARDOUS POLYMERISATION: Will not occur

CARTRIDGE

Combustion products are the same as for ribbon, but also include monomers and polymer breakdown products including Hydrogen Cyanide.

SECTION 6 - TOXICITY AND HEALTH

A. EXPOSURE LIMITS

- OSHA Permissible Exposure Limit (PEL): Not established
- Threshold Limit Value (TLV): Not established

B. EXPOSURE EFFECTS

INHALATION: None expected
EYES: None expected
SKIN: Molten materials will produce thermal burns

SUMMARY: It seems reasonable to treat these material as nuisance particulates.

C. FIRST AID

SKIN: If burned by contact with molten materials, cool as quickly as possible with water and see a physician for treatment of burns.

NOTE TO PHYSICIAN: Burns should be treated as thermal burns. Products are polymers of low toxicity; therefore, there is no urgent need to remove them from he skin because of concern about toxicity.

D. TOXICITY DATA

Toxicology findings for the major components used to formulate these products suggest they are of low toxicity.



MATERIAL SAFETY DATA SHEET

SECTION 7 - PERSONAL PROTECTION AND CONTROLS

- A. RESPIRATORY PROTECTION: None should be needed.
- B. VENTILATION: General
- C. SKIN AND EYE PROTECTION: None required
- D. OTHER CONTROL MEASURES: None required

SECTION 8 - SPECIAL STORAGE AND HANDLING PRECAUTIONS

No special precautions are known

SECTION 9 - SPILL, LEAK AND DISPOSAL PRACTISES

Waste Disposal Method: Incineration or Landfill.
Observe all state, and local laws concerning health and environment.

SECTION 10 - ENVIRONMENTAL EFFECTS DATA

These products have not been tested for environmental effects. However, because of their very low solubility, the following statements regarding the expected environmental impact are believed to be valid:

These products are expected to cause little oxygen depletion in aquatic systems. They are expected to have a low potential to affect aquatic organisms, secondary waste treatment micro-organisms, and the germination and growth of plants. They are expected to be resistant to biodegradation but are unlikely to bioconcentrate. Although, in a spill situation, these products may be aesthetically unpleasant, they are not expected to have any adverse environmental impact.

SECTION 11 - TRANSPORTATION

DOT Hazard Classification : Not regulated by DOT.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.
