

21116-2003

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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List) Black Inks 3085 Ultradraw, 3091 Rapidplot - F, 9065 Black, 9066 Black, 9150 Black, 3071 Black	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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Section I

Manufacturer's Name Chartpak, Inc.	Emergency Telephone Number (800) 424-9300
Address (Number, Street, City, State, ZIP Code) One River Road Leeds, MA 01053	Telephone Number for Information (413) 584-5446
	Date Prepared 3/08
	Date Supersedes March 2006

Section II - Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Isopropyl Alcohol (67-63-0)	400ppm	400ppm		0.9
*Ethylene Glycol (107-21-1)		CL 50ppm		1.5
Morpholine (110-91-8)	20ppm	20ppm		1.5
Non-Hazardous Components				
Water				75-80
Carbon Black				~9
Acrylic Resin				~2
Glycerin				~5

Additional Information: All ingredients are listed on the EPA Toxic Substances Control (TSCA) Inventory
SARA Title III Sect. 313: *Listed
HMIS: H1 F0 R0 Canadian WHMIS classification: Not a controlled product.

Section III - Physical/Chemical Characteristics

Boiling Point	213°F	Specific Gravity (H ₂ O = 1)	1.068
Vapor Pressure (mm Hg)	Like Water	Melting Point	18-23°F
Vapor Density (AIR = 1)	Like Water	Evaporation Rate	Like Water
Solubility in Water	Completely miscible		
Appearance and Odor	Black fluid, mild odor		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	174°F ASTM D56	Flammable Limits	LEL	N.A.	UEL	N.A.
Extinguishing Media	Water, foam, dry chemical, carbon dioxide					
Special Fire Fighting Procedures	The ink will burn only after most of the water has been evaporated.					
Unusual Fire and Explosion Hazards	None					

Section V - Reactivity Data

Stability	Unstable	Conditions To Avoid
	Stable	
Incompatibility (Materials to Avoid)	X	None

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Hazardous Decomposition or Byproducts None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic) May cause irritation of skin, eyes, and respiratory system. Morpholine has produced kidney damage in animals. Isopropanol has caused corneal inflammation and burns.

Carcinogenicity: None **NTP?** **IARC Monographs?** **OSHA Regulated?**

Signs and Symptoms of Exposure Exceeding TLV's of components may result in irritation and burning of the eye, headache, drowsiness, and dermatitis.

Medical Conditions Generally Aggravated by Exposure None expected

Emergency and First Aid Procedures
EYES: Flush with water for 15 minutes - then get medical attention.
SKIN: Wash skin with soap and water.
INGESTION: Drink 1 or 2 glasses of water to dilute, get medical attention.
INHALATION: Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Wash with soap and water

Waste Disposal Method In accordance with federal, state, and local regulations.

Precautions to Be Taken in Handling and Storing Store at room temperature.

Other Precautions Keep from freezing.

Section VIII - Control Measures

Respiratory Protection (Specify Type) Not required

Ventilation	Local Exhaust	Not required	Special	None
	Mechanical (General)	Sufficient	Other	None

Protective Gloves Not required **Eye Protection** Not required

Other Protective Clothing or Equipment None

Work/Hygienic Practices Standard

NA - Not applicable ND - Not Determined