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Chartpak Inc.

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Black Inks 3085 Ultradraw, 3091 Rapidplot - F, 9065 Black, 9066 Black page 1

**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	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 KOH-I-NOOR Inc.	Emergency Telephone Number (908) 479-4124
Address (Number, Street, City, State, ZIP Code) 100 North Street P.O. Box 68 Bloomsbury, NJ 08804-0068	Telephone Number for Information (908) 479-4124 Date Prepared March 28, 2003 Date Supersedes May 21, 1999

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits <sup>1</sup> 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
<b>Non-Hazardous Components</b>				
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

**Section III - Physical/Chemical Characteristics**

Boiling Point	213°F	Specific Gravity (H <sub>2</sub> 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	

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07/22/2003 13:48 FAX 18007627918

Chartpak Inc.

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Black Inks 3085 Ultradraw, 3091 Rapidplot - II, 9065 Black, 9066 Black page 2

Incompatibility (Materials to Avoid)		None	
Hazardous Decomposition or Byproducts		None	
Hazardous	May Occur	Conditions to Avoid	
Polymenzation	Will Not Occur		

**Section VI - Health Hazard Data**

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