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3084 Rapiddraw Ink

21132-1034

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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) 3084 Rapiddraw Ink	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 Reviewed 12/12
	Supersedes 4/11

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
isopropanol (67-63-0)	400 ppm	400ppm		<2
Morpholine (110-91-8)	20ppm	20ppm		1
*Ethylene Glycol (107-21-1)		39.4 ppm CL		2.6
Non Hazardous Components:				
Carbon Black (1333-86-4)				15
Water				60-70

Additional Information:	All ingredients are listed in the EPA Toxic Substances Control Act Inventory (TSCA) SARA TITLE III Sect. 313: *Listed HMIS: H1 FO RO
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Section III - Physical/Chemical Characteristics

Bolling Point	212°F	Specific Gravity (H ₂ O = 1)	1.095
Vapor Pressure (mm Hg.)	ND	Melting Point	19-24°F
Vapor Density (AIR = 1)	ND	Evaporation Rate (Butyl Acetate = 1)	Like Water
Solubility in Water	Miscible in all proportions		
Appearance and Odor	Black liquid. Mild odor.		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	173°F ASTM D56	Flammable Limits	LEL	N.A.	UEL	N.A.
Extinguishing Media	This ink will not burn or support combustion.					
Special Fire Fighting Procedures	High temperatures will evaporate the liquid and the residue will burn. Water is an adequate extinguishing media.					
Unusual Fire and Explosion Hazards	None					

Section V - Reactivity Data

Stability	Unstable	X	Conditions To Avoid	None
	Stable			
Incompatibility (Materials to Avoid)	None			
Hazardous Decomposition or Byproducts	None			

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Hazardous Polymenzation	May Occur		Conditions to Avoid	None
	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Possible Route	Skin?	Possible Route	Ingestion?
Health Hazards (Acute and Chronic)	May be irritating to skin, eyes, and respiratory system. LD ₅₀ (oral-rats) greater than 5g/Kg. Morpholine has produced kidney damage in animals. isopropanol has caused corneal inflammation and burns.				
Carcinogenicty:	NTP?	None	IARC Monographs?	None	OSHA Regulated?
Signs and Symptoms of Exposure	It is very unlikely that the TLV's for the materials in Section II would be exceeded during usage, however, abuse may result in eye irritation, headache and dizziness.				
Medical Conditions Generally Aggravated by Exposure	None Expected				
Emergency and First Aid Procedures	INHALATION: Remove to fresh air.		SPLASH (eyes): Flush immediately with large amounts of water for 15 minutes. Seek medical attention.		
	INGESTION: Drink 1 or 2 glasses of water to dilute. Get medical attention.		SPLASH (skin): Remove with soap and water.		

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	Keep from freezing.
Other Precautions	Store at room temperature.

Section VIII - Control Measures

Respiratory Protection (Specify Type)	None required.	
Ventilation	Local Exhaust	Not required
	Mechanical (General)	Normally sufficient to keep hazardous components below TLV's.
	Special	None
	Other	None
Protective Gloves	Personal Preference	Eye Protection
		Not required
Other Protective Clothing or Equipment	Not required	
Work/Hygienic Practices	Wash hands before eating or smoking.	

NA - Not applicable ND - Not Determined