

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) 3080 Universal Black India Ink	<i>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.</i>
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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	
	Last Date Reviewed 3/08	Supersedes 3/03

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ammonium Hydroxide (1336-21-6)		25ppm as NH ₃		1-2
Phenol (108-95-2)	5ppm	5ppm		0.45
*Ethylene Glycol (107-2-1)	50ppm ceiling conc.	39.4ppm ceiling conc.		1.6
Non Hazardous Components:				
Water				75-85
Carbon Black (1333-86-4)				7-9
Shellac (9000-59-3)				6-8
Additional Information:	All ingredients are listed in the EPA toxic substances control act inventory (TSCA) Sara Title 313: *Listed HMIS: HI FO RO			

Section III - Physical/Chemical Characteristics

Boiling Point	215°F	Specific Gravity (H ₂ O = 1)	1.055
Vapor Pressure (mm Hg.)	Like Water	Melting Point	25-28°F
Vapor Density (AIR = 1)	Like Water	Evaporation Rate (Butyl Acetate = 1)	Like Water
Solubility in Water	Miscible		
Appearance and Odor	Black liquid with mild odor		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	None ASTM D56	Flammable Limits	LEL	None	UEL	None
Extinguishing Media	This ink will not burn or support combustion					
Special Fire Fighting Procedures	High temperatures will evaporate the water and the remaining residue will burn. Water is an adequate extinguishing medium.					
Unusual Fire and Explosion Hazards	NONE					

Section V - Reactivity Data

Stability	Unstable		Conditions To Avoid	NONE
	Stable	X		
Incompatibility (<i>Materials to Avoid</i>)			NONE	
Hazardous Decomposition or Byproducts			Ammonia, oxides of carbon and nitrogen	
Hazardous	May Occur		Conditions to Avoid	NONE
Polymenzation	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	X	Skin?	X	Ingestion?
Health Hazards (<i>Acute and Chronic</i>)	Over exposure to ammonia, phenol, and ethylene glycol: Acute: Nausea, vomiting, circulatory collapse, depression, greenish or smokey urine, drowsiness, respiratory failure, convulsions. Chronic: Renal and hepatic damage.				
Carcinogenicity: NONE	NTP?		IARC Monographs?		OSHA Regulated?
Signs and Symptoms of Exposure	Over exposure is not expected under normal ink usage; contact with eyes or skin may result in irritation, ingestion may result in gastric disturbances, inhalation may irritate respiratory tract.				
Medical Conditions Generally Aggravated by Exposure	No data found				
Emergency and First Aid Procedures	If inhaled, move to fresh air, flush eyes with water for at least 15 minutes, wash skin with soap and water. If ingested, drink 1 or 2 glasses of water to dilute. If irritation develops, get medical attention immediately.				

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Wipe at once. Dried ink can be soaked with soap solution and rinsed.
Waste Disposal Method	Bury, incinerate, or run into sewer in accordance with all legal regulations.
Precautions to Be Taken in Handling and Storing	Avoid temperature extremes
Other Precautions	NONE

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>)	Not Required for normal usage			
Ventilation	Local Exhaust	Not Required	Special	Not Required
	Mechanical (<i>General</i>)	Is normally sufficient to maintain exposure below TLV's	Other	Not Required
Protective Gloves	Recommended to avoid staining hands.		Eye Protection	Recommended to avoid splashing into eyes.
Other Protective Clothing or Equipment	None			
Work/Hygienic Practices	Wash hands thoroughly before eating, smoking, or using toilet facilities.			