## MATERIAL SAFETY DATA SHEET

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A.T.CROSS COMPANY ONE ALBION ROAD LINCOLN, RHODE ISLAND 02865 Phone: (401) 335-8376 Consumer Information Sheet #2745

Gel Roller Ball PEN INK # Gel Ink Black ink # 19168A Chemical Family: NA Used in: Roller Ball Pen Refills - Black Ink Prepared: 2/18/03 Revised:

This is a reproduction of the Ink Manufacturers MSDS for bulk ink. An MSDS for the writing instrument is not required. They are exempt as either "articles", 29 CFR 1910.1200(b)(6)(v), or a "consumer product", 29 CFR 1910.1200(b)(6)(ix). ASTM D-4236 Labeling is also not required for these products.

Revision:	Manufacturer: Chad Labs Corporation
Revision Date:	128 Research Drive
Item No. 1071-1A	Milford, CT 06460 USA
Issue Date: April 10, 2002	(203) 877-3891
Section: I	DDODUCT IDENTIFICATION

Section: 1	PRODUCT IDE					
Trade Name: Gel Black ink # 19168A Color: Black						
Chemical Family: N/A		Formula: Proprietary				
Section: II HAZARDOUS INGREDIENTS						
Exposure Limits in Air						
	ACG		SHA			
	CAS No. (TLV)	(PE	EL)	Other:		
Propylene Glycol						
Ethylene Glycol						
Section: III PHYSICAL PROPERTIES						
Boiling Point: > 212° F	Specific Gravity 25°C: 1.0740 - 1.0860					
Melting Point: N/A		Evaporation Rate (But. Acetate = 1) Approx. $0.005$				
Vapor Pressure: MM hg @ 25° C Water Solubility: Miscible						
Vapor Density: $(Air = 1) > 1$	Appearance: Black Liquid					
Odor: Odorless	Surface Tension @ 25° C.: 32 Min					
pH @ 25°C: 6.0 - 8.0 Visc	osity @ 25° C. : 450 -	1,100 CPS				
Section: IV FIRE AND EXPLOSION						
Flash point: 221° F	Flash point: 221° F Method Used: N/A					
Flammable limits in air:	Lower: 2.8%	Upper: 13	.9%			
Autoignition Temperature, F°.: Unknown						
Fire Extinguishing Material:						
	Carbon Dioxide: 2	K Dry Chem	ical:			
	Other:					
Special Fire Fighting Procedures: Fireman should be fitted with self-contained breathing apparatus to avoid						
inhalation of products of combustion						
Unusual Fire and Explosion: N	one Known					
Swallowed: N/A						

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Section: V HEALTH HAZARD INFORMATION				
Symptoms of over exposure for each potential route of exposure:				
Inhaled: Little hazard exists at room temperature				
Eye Contact: May cause irritation Skin Contact: Colors the skin and may cause drying				
Absorbed through skin: None expected Swallowed: None expected				
Health effects or risks from exposure: Non-hazardous				
Acute: None known				
Chronic: None known				
First Aid Emergency Procedures:				
Eye Contact: Flush eyes for at least 15 minutes with large amounts of water. Get medical attention if eye				
pain persists.				
Skin Contact: Remove contaminated clothing and wash affected area with plenty of water and soap.				
Inhaled: Remove victim to an uncontaminated atmosphere and administer oxygen or artificial respiration as needed.				
Swallowed: Call a physician				
Suspected Cancer Agent: This products ingredients are not found in the list below:				
No X Fed. OSHA NTP IARC CAL/OSHA				
Yes				
Section: VI REACTIVITY DATA				
Stability: Stable: X Unstable:				
Conditions to Avoid: N/A Materials to Avoid: Strong Oxidizing Agents				
Hazardous Decomposition Products (including combustion products): Carbon monooxide and carbon				
dioxide oxides of nitrogen.				
Hazardous Polymerization: May Occur: Will Not Occur: X				
Conditions to Avoid: N/A				
Section: VII SPILL, LEAK AND DISPOSAL PROCEDURES				
Spill Response Procedures and Employee Protection Measures:				

Soak up all spills on paper, sawdust, earth or other suitable absorbents and scoop into closed containers.

Wash down spill area with plenty of water.

Disposal method: Remove to an approved landfill site.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

## Section: VIII SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Local exhaust as needed to remove fumes if any. Respiratory Protection: Necessary only is the ink is heated. Use an approved respirator for organic vapors and fumes.

Eye Protection: Safety glasses with side shields Gloves: Rubber Other Clothing and Equipment: Impervious Clothing Where Skin Contact Is Unavoidable Eyewash must be close to work area

Work Practices: Hygienic Practice and No Smoking while handling materials. Other Handling and Storage Requirements: Do not store outside. Keep container closed when not in use.

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Section: IX	LABELING	
Labeling: None		

Section: X NOTICE

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End of MSDS