

MATERIAL SAFETY DATA SHEET

#4 BLACK INK  
JUNE 1, 2003 Rev. 6  
PAGE 1 OF 3

**IMPORTANT:** Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

**CHEMTREC 24 HOUR EMERGENCY TELEPHONE NUMBER: 800-424-9300**  
**INTERNATIONAL EMERGENCY TELEPHONE NUMBER: 703-527-3887**

**SECTION I - GENERAL INFORMATION**

**PRODUCT NAME:** # 4 BLACK INK  
**GENERIC NAME:** Flexographic Ink  
**CHEMICAL FAMILY:** Mixture  
**CAS NO.:** NOT AVAILABLE (MIXTURE)  
**DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME:** Non-Restricted Ink  
**DOT HAZARD CLASS:** Non-Restricted  
**UN/NA ID NO.:** Not Applicable  
**HMIS CODES:** 2H, 2F, 0R

**SECTION II - HAZARDOUS INGREDIENTS**

Hazardous Components	CAS Number	OCCUPATIONAL EXPOSURE LIMITS		SEE SEC.VI	VAPOR PRESSURE		WEIGHT PERCENT
		OSHA PEL	ACGIH TLV		MM HG	@ TEMP	
Dipropylene Glycol Monomethyl Ether	34590-94-8	100 PPM	100 PPM	N/A	0.4	77°F	5
*Ethylene and Diethylene Glycols	107-21-1	N/A	50 PPM	X	0.1	77°F	69

\*INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

**SECTION III - PHYSICAL DATA**

**BOILING RANGE:** 365 to 387°F  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.1  
**VAPOR DENSITY:** Heavier than Air  
**EVAPORATION RATE:** Slower than Ether  
**MATERIAL V.O.C.:** 7.58 LB/GL (908 G/L)  
**SOLUBILITY IN WATER:** Insoluble  
**APPEARANCE AND ODOR:** Viscous Colored Liquid, Practically Odorless

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 175°F  
**METHOD USED:** Closed Cup  
**FLAMMABLE LIMITS IN AIR BY VOLUME:** LOWER: 2.0% UPPER 15.0%

**EXTINGUISHING MEDIA:** Alcohol Foam, CO<sub>2</sub>, Dry Chemical, Water Fog  
**SPECIAL FIREFIGHTING PROCEDURES:** Water spray may be ineffective. Water may be used to cool closed containers to prevent explosion when exposed to extreme heat. Full protective equipment may be needed to protect firefighters from hazardous combustion products.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** During emergency conditions, overexposure to decomposition products may cause a health hazard.

**PANNIER CORPORATION**  
**MATERIAL SAFETY DATA SHEET**

**#4 BLACK INK**  
**JUNE 1, 2003 Rev. 6**  
**Page 2 of 3**

**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** NONE

**INCOMPATIBILITY (MATERIALS TO AVOID):** Contact with strong acids, alkalis or oxidizers.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** May produce carbon monoxide, carbon dioxide, oxides of nitrogen and other hazardous decomposition products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION VI - HEALTH HAZARD DATA**

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** TLV 50 PPM ceiling (vapor), value from ACGIH. Essentially no irritation when used at room temperature.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** SKIN: Prolonged or repeated contact may dry and irritate skin. EYES: Mildly irritating.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Dermatitis may result from prolonged or repeated contact.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:** Can cause nausea, vomiting and narcosis.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** ACUTE: Moderate irritation of eyes, nose, throat and skin. High concentrations may cause nervous system disturbances. CHRONIC: Excessive exposure may cause kidney injury.

**CARCINOGENICITY:** NTP? No IARC No OSHA REGULATED? No  
None Currently Known MONOGRAPHS?

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Respiratory irritation, dermatitis, anemia and nausea.

**EMERGENCY AND FIRST AID PROCEDURES:** INHALATION: Remove to fresh air. Restore breathing. Treat symptoms. Consult a physician. EYES: Flush immediately with water for 15 minutes. See a physician. SKIN: Wash with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. INGESTION: Drink water to dilute. Do NOT induce vomiting. Consult a physician or poison control center immediately.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove by suitable inert absorbing material.

**WASTE DISPOSAL METHOD:** Incineration is preferred, in compliance with local, state and federal regulations. Refer to MSDS caution information before attempting to cleanup.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid excessive inhalation of vapor or mist.

**OTHER PRECAUTIONS:** In accordance with good industrial practice, handle with care and avoid unnecessary contact. Use only with adequate ventilation. Wash thoroughly after handling. For industrial use only. HMIS personal protective equipment is dependent upon conditions of use.

**SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** When used with adequate ventilation none normally required. However, when required its use must be in compliance with all OSHA health and fit testing requirements, as given in 29 CFR 1910.134.

**VENTILATION:** Sufficient volume and pattern should be provided to keep air contaminant concentrations below current ACGIH TLV limits.

**PROTECTIVE GLOVES:** Protective gloves recommended for prolonged or repeated contact. Use rubber or plastic.

**EYE PROTECTION:** Safety eyewear is recommended and should be available to avoid accidental contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Use protective cream when skin contact is likely.

**PANNIER CORPORATION**  
**MATERIAL SAFETY DATA SHEET**

**#4 BLACK INK**  
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**Page 3 of 3**

**WORK/HYGIENIC PRACTICES:** Wash hands before eating, drinking or smoking. Avoid smoking in work area.

**SECTION IX - SPECIAL PRECAUTIONS**  
NO OTHER DATA AVAILABLE

**SECTION X - REGULATORY INFORMATION**  
**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III TOXIC CHEMICAL(S)**  
**SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.**

	CAS NUMBER
Ethylene and Diethylene Glycols	107-21-1

**DISCLAIMER OF LIABILITY**

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