PANNIER CORPORATION 207 SANDUSKY STREET, PITTSBURGH, PA 15212-5823 U.S.A.



MATERIAL SAFETY DATA SHEET

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

 SECTION I - GENERAL
 24 HOUR EMERGENCY TELEPHONE NUMBER: INFOTRAC 1-800-535-5053

 INFORMATION
 TRADE NAME:

 TRADE NAME:
 PANNIER "MASTER MARKER"

 GENERIC NAME:
 Flexographic Ink

 CHEMICAL FAMILY:
 Mixture

 CAS NO.:
 NOT AVAILABLE (MIXTURE)

 DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME:
 Ink

DOT HAZARDOOS MATERIALS PROPER Shipping NAM DOT HAZARD CLASS: Flammable Liquid UN/NA ID NO.: UN 1210 HMIS CODES: 2H, 3F, 0R

		OCCUP	VAPOR		WEIGHT	
		EXPOSURE LIMITS		PRESSURE		
HAZARDOUS COMPONENTS	CAS	OSHA PEL	ACGIH TLV	MM	@	PERCENT
	NUMBER			HG	TEMP	
Denatured Ethyl Alcohol	64-17-5	1000 PPM	1000 PPM	44.0	68°F	35
Proplyene Glycol Monomethyl	107-98-2	N/A	100 PPM	10.9	77°F	20-30
Ether						
*Diethylene Glycol Monbutyl	112-34-5	N/A	N/A	0.1	77°F	3
Ether						
GREEN, YELLOW						
*Phthalocyanine Blue, C.I. No.	147-14-8	N/A	N/A	N/A	N/A	2
74160						
GREEN						

SECTION III - PHYSICAL DATA

BOILING RANGE:	BLACK: 165 t0 248 °F				
2012110110101	GREEN, YELLOW: 165 to 446 °F				
SPECIFIC GRAVITY (H ₂ 0=1):	1.0				
VAPOR DENSITY:	Heavier than Air				
EVAPORATION RATE:	Slower than Ether				
MATERIAL V.O.C.:	BLACK: 5.08 LB/GL (608 G/L)				
	GREEN: 4.55 LB/GL (545 G/L)				
	YELLOW: 4.41 LB/GL (576 G/L)				
SOLUBILITY IN WATER:	Insoluble				
APPEARANCE AND ODOR:	Thin Colored Liquid, Alcoholic				

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 54 °F

METHOD USED: Closed Cup

 FLAMMABLE LIMITS IN AIR BY VOLUME:
 LOWER:
 0.9%
 UPPER:
 19.0%

EXTINGUISHING MEDIA: Alcohol Foam, CO₂, 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.

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 SECTION V - REACTIVITY DATA

 STABILITY:
 Stable

 CONDITIONS TO AVOID:
 Heat, Sparks and Open Flame

 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: Irritation of nose and throat, dizziness, headache, nausea and narcosis.

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

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Dermatitis may result from 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 and narcosis. CHRONIC: None currently known.

CARCINOGENICITY: No IARC No OSHA REGULATED? No None Currently MONOGRAPHS?

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory irritation, dermatitis 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: Eliminate all sources of vapor ignition. Ventilate area. Avoid breathing vapors. 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: Keep containers closed when not in use, and keep away from heat, sparks and open flame. 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.

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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. **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	PERCENT
	NUMBER	
*Diethylene Glycol Monbutyl Ether	112-34-5	GREEN, YELLOW: 3
*Phthalocyanine Blue, C.I. No. 74160	147-14-8	GREEN: 2

DISCLAIMER OF LIABILITY

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