**SECTION I - GENERAL INFORMATION**

**TRADE NAME:** PANNIER

**GENERIC NAME:** Flexographic Ink

**CHEMICAL FAMILY:** Mixture

**CAS NO.:** NOT AVAILABLE (MIXTURE)

**DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME:** Non-Restricted Article

**DOT HAZARD CLASS:** Non-Restricted

**UN/NA ID NO.:** Not Applicable

**HMIS CODES:** 2H, 1F, 0R

**SECTION II – HAZARDOUS COMPONENTS**

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>VAPOR PRESSURE MM @ TEMP</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Ethylene Glycol</td>
<td>107-21-1</td>
<td>N/A</td>
<td>50 PPM</td>
<td>0.1 68°F</td>
<td>16</td>
</tr>
<tr>
<td><strong>Proprietary Ingredient</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>0.3 77°F</td>
<td>37</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION III - PHYSICAL DATA**

**BOILING RANGE:** 387 to 395°F

**SPECIFIC GRAVITY (H₂O=1):** 1.4

**VAPOR DENSITY:** Heavier than Air

**EVAPORATION RATE:** Slower than Ether

**MATERIAL V.O.C.:** 6.39 LB/GL (766 G/L)

**SOLUBILITY IN WATER:** Partially Soluble

**APPEARANCE AND ODOR:** Viscous Colored Liquid, Alcoholic Odor

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

**FLASH POINT:** 196°F

**METHOD USED:** Closed Cup

**FLAMMABLE LIMITS IN AIR BY VOLUME:** LOWER: 1.2% UPPER: 23.0%

**EXTINGUISHING MEDIA:** Alcohol Foam, CO₂, Dry Chemical, Water Fog

**SPECIAL FIREFIGHTING PROCEDURES:** 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.

**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, sparks and open flames.
INCOMPATIBILITY (MATERIALS TO AVOID): Contact with strong acids, alkalis or oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce carbon monoxide, carbon dioxide, 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 and nausea.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SKIN: Prolonged and repeated contact may dry and irritate. 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: NTP? No IARC No OSHA REGULATED? No None currently known.

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 immediately. 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 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 29CFR 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.
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.

ETHYLENE GLYCOL

107-21-1

Proprietary Ingredient

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