SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: I1083 White Ink
PRODUCT CODE: I1083-2110
PRODUCT USE: Marking Ink
CHEMICAL FAMILY: Mixture
CAS NO.: NOT AVAILABLE (MIXTURE)

Not recommended for: Consumer Use
Manufacturer/Supplier:
PANNIER CORPORATION
207 SANDUSKY STREET
PITTSBURGH, PA 15212-5823 U.S.A.
24 Hr Emergency Telephone Number: Infotrac 1-800-535-5053

SECTION 2 - HAZARDS IDENTIFICATION

Risk Statements: Irritating to eyes, respiratory system, throat and skin. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness. Harmful if swallowed – can cause nausea, vomiting and narcosis.

Safety Statements: Avoid contact with skin and eyes. Keep container tightly closed. Keep away from sources of ignition. No smoking!

Potential Health Effects:
High concentrations may cause nervous system disturbances and narcosis. Chronic: Excessive exposure may cause kidney, liver and possibly blood disturbances.

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.

SEE SECTIONS 8, 11 - The hazards are based on 100% of the contained materials. They may be reduced by their lower concentration.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS NUMBER</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>*N-BUTYL ALCOHOL</td>
<td>71-36-3</td>
<td>30</td>
</tr>
<tr>
<td>2 ETHYL HEXANOL</td>
<td>104-76-7</td>
<td>11</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

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 5 - FIRE FIGHTING MEASURES

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 6 - ACCIDENTAL RELEASE MEASURES
SECTION 7 - HANDLING AND STORAGE
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 8 - exposure controls / personal protection

SECTION 8 – EXPOSURE CONTROLS/PERSONAL

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>OCCUPATIONAL EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>*N-BUTYL ALCOHOL</td>
<td>50 PPM</td>
</tr>
<tr>
<td>2 ETHYL HEXANOL</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Control measures: general ventilation should be sufficient for most conditions.

Respiratory protection: none normally required. However, when required, its use must be in compliance with all OSHA health and fit testing requirements, as given in 29cr 1910.134.

Protective clothing: use of rubber or plastic gloves recommended for prolonged or repeated contact.

Other protective clothing or equipment: use protective cream when skin contact is likely.

Eye protection: safety eyewear should be available to avoid accidental contact

Work / hygienic practices: wash hands before eating, drinking or smoking. No smoking in work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: 243 to 363 deg. F.
Specific gravity (h2o=1): 1.27
Vapor density: heavier than air
Evaporation rate: slower than ether
Material V. O. C.: 4.33 lb/g (519 g/l)
Solubility in water: insoluble
Vapor pressure: 4.0 mm hg @ 68 deg. F
Appearance and odor: thin colored liquid, alcoholic
Flash point: 97 deg. F
method used: closed cup
Flammable limits in air by volume - lower: 0.9% upper: 11.2%

SECTION 10 - STABILITY AND REACTIVITY

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 11 - TOXICOLOGICAL INFORMATION

Individual ingredient hazards

*n-butyl alcohol - ingestion: ld50, 2,292 mg/kg - rat. Skin absorption: ld50, 3,430 mg/kg - rabbit. Inhalation: lc50, 8,000 mg/kg, 1 hour - rat (4 hours)
2 ethyl hexanol - ingestion: ld50, 1,400 mg/kg. - rat. Skin absorption: ld50, 1,700 mg/kg - rabbit. Inhalation: lc50, 20,000 ppm - rat (10 hours).


None currently known.

Medical conditions generally aggravated by exposure
Respiratory irritation, dermatitis and nausea.

**SECTION 12 - ECOLOGICAL INFORMATION**
NDA

**SECTION 13 - DISPOSAL CONSIDERATIONS**
Waste disposal method: incineration is preferred, in compliance with local, state and federal regulations. Refer to SDS caution information before attempting cleanup.

**SECTION 14 - TRANSPORT INFORMATION**
- **Dot proper shipping name:** printing ink
- **Packing group:** II
- **Dot hazard class:** 3
- **Dot UN/NA number:** UN 1210
- **Hazard subclass:** N/A
- **Emergency response guide no:** 26

The listed transportation information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment, or other regulatory descriptors.

**SECTION 15 - REGULATORY INFORMATION**
- **Toxic substances control act:** all of the ingredients are listed in the TSCA inventory.
- **SARA 313:** *chemicals subject to reporting requirements of sec. 313 of title iii and of 40 CFR 372 are present.

**SECTION 16 - OTHER INFORMATION**
- **HMIS codes:** H – 2, F – 3, R – 0, P – N/D
- **Legend:** NDA – no data available N/D - not determined N/E – not established

**DISCLAIMER**
The information and recommendations contained herein were obtained from sources believed to be generally reliable, but, we make no warranty concerning their accuracy or sufficiency, and we will not be held liable for claims relating to any party’s use of or reliance on information or recommendations contained herein.