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

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

SECTION I - GENERAL INFORMATION

PRODUCT NAME: 1083C Black Ink  
GENERIC NAME: Flexographic Ink  
CHEMICAL FAMILY: Mixture  
CAS NO.: NOT AVAILABLE (MIXTURE)  
DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME: PRINTING INK  
DOT HAZARD CLASS: Flammable Liquid  
UN/NA ID NO.: UN 1210  
HMIS CODES: 2H, 3F, 0R

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CAS NUMBER</th>
<th>OCCUPATIONAL EXPOSURE LIMITS</th>
<th>VAPOR PRESSURE</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>*N-BUTYL ALCOHOL</td>
<td>71-36-3</td>
<td>50 PPM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 ETHYL HEXANOL</td>
<td>104-76-7</td>
<td>N/A</td>
<td>4.0 mm Hg @ 68F</td>
<td>49</td>
</tr>
</tbody>
</table>

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 243 to 363° F  
SPECIFIC GRAVITY (H2O = 1): 1.1  
VAPOR DENSITY: HEAVIER THAN AIR  
EVAPORATION RATE: SLOWER THAN ETHER  
MATERIAL V. O. C.: 5.36 LB/GL (642 G/L)  
SOLUBILITY IN WATER: INSOLUBLE  
APPEARANCE AND ODOR: THIN COLORED LIQUID, ALCOHOLIC

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 97° F  
METHOD USED: CLOSED CUP  
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 0.9% UPPER: 11.2%  
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.
UNUSUAL FIRE AND EXPLOSION HAZARDS
CLOSED CONTAINERS MAY EXPLODE OR COLLAPSE WHEN EXPOSED TO EXTREME HEAT. 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 FLAME.
INCOMPATIBILITY (MATERIALS TO AVOID): CONTACT WITH STRONG ACIDS, ALKALIES 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 (SKIN) VALUE FROM ACGIH. IRRITATION OF NOSE AND THROAT, DIZZINESS, HEADACHE AND NAUSEA.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
PROLONGED OR REPEATED CONTACT MAY DRY AND IRRITATE SKIN. EYE CONTACT: MILDLY IRRITATING.
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
DEMITITUS MAY RESULT FROM REPEATED CONTACT.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
CAN CAUSE NAUSEA, VOMITTING AND NARCOSIS.
HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: MODERATE IRRITATION TO EYES, THROAT AND SKIN. HIGH CONCENTRATIONS MAY CAUSE NERVOUS SYSTEM DISTURBANCES, NARCOSIS. CHRONIC: NONE CURRENTLY KNOWN
CARCINOGENICITY: NONE CURRENTLY KNOWN
NTP? NO
IARC MONOGRAPHS? NO
OSHA REGULATED? NO
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
RESPIRATORY IRRITATION, DEMITITIS, 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, REMOVED 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 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 29CRF 1910.134.

**VENTILATION**
SUFFICIENT VOLUME AND PATTERN SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATIONS BELOW CURRENT ACGIH TLV LIMITS.

**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 – DISCLAIMER**

**DISCLAIMER OF LIABILITY**
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