

PANNIER CORPORATION
207 SANDUSKY STREET, PITTSBURGH, PA 15212-5823 U.S.A.
MATERIAL SAFETY DATA SHEET

#100 INK: BLACK, VIOLET, BLUE, RED, GREEN, WHITE, YELLOW
07/30/03 - Rev. 3
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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.

24 HOUR EMERGENCY RESPONSE NUMBER: 800-424-9300

INTERNATIONAL EMERGENCY RESPONSE NUMBER: 703-527-3887

SECTION I - GENERAL INFORMATION

TRADE NAME: Universal #100 Ink
GENERIC NAME: Printing Ink
CHEMICAL FAMILY: Mixture
CAS NO.: NOT AVAILABLE (MIXTURE)
DOT HAZARDOUS MATERIALS PROPER SHIPPING NAME: PRINTING INK
DOT HAZARD Flammable Liquid, PG III (or ORD-D if containers are < or=1 gallon, domestic ground
CLASS: shipments only)
UN/NA ID NO.: UN 1210
HMIS CODES: 2H, 3F, 0R

SECTION II – HAZARDOUS COMPONENTS

| Hazardous Components | CAS Number | OCCUPATIONAL EXPOSURE LIMITS | | WEIGHT PERCENT |
|-------------------------------|------------|------------------------------|----------------------------|----------------|
| | | OSHA PEL | ACGIH TLV | |
| n-Butyl Alcohol | 71-36-3 | 500ppm | 50ppm | 30-40 |
| Ethyl Alcohol | 64-17-5 | 1000ppm | 250ppm | 5-15 |
| Isopropyl Alcohol | 67-63-0 | 400ppm | 400ppm | 5-15 |
| WHITE, YELLOW: Ethyl Acetate | 141-78-6 | 400ppm | 400ppm | 0-5 |
| YELLOW: Lead Chromate Pigment | 7758-97-6 | .05mg/m3 Pb | .15mg/m3 Pb .05mg/m3 CR | 5-15 |
| WHITE, YELLOW: Toluene | 108-88-3 | 100ppm | 100ppm | 0-5 |

SECTION III - PHYSICAL DATA

BOILING RANGE: BLACK, BLUE, GREEN, RED, VIOLET: >200
WHITE, YELLOW: approx 200
SPECIFIC GRAVITY (H2O=1): BLACK, BLUE, GREEN, RED, VIOLET: .98
WHITE, YELLOW: 1.07
VAPOR DENSITY (Air =1): BLACK, BLUE, GREEN, RED, VIOLET: 2
WHITE, YELLOW: 2.7
VAPOR PRESSURE (mm Hg): BLACK, BLUE, GREEN, RED, VIOLET: <25
WHITE, YELLOW: 18
EVAPORATION RATE (nBuAcet=1): .7
% VOLITILE BY VOLUME: BLACK, BLUE, GREEN, RED, VIOLET: 90
WHITE, YELLOW: approx 85
SOLUBILITY IN WATER: Appreciable
APPEARANCE AND ODOR: Liquid, moderate odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: BLACK, BLUE, GREEN, RED, VIOLET: 74°F
WHITE, YELLOW: 46°F

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METHOD USED: Open Cup
FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 1.4% UPPER: unknown
extinguishing media: Multipurpose Foam, CO₂, Dry Chemical, Water Fog
SPECIAL FIREFIGHTING PROCEDURES: Fight as volatile liquid fire. Water spray may spread fire. Vapors are dense and may travel to remote ignition source.
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: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): Contact with strong acids, strong oxidizing agents
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce carbon monoxide, carbon dioxide, oxides of nitrogen and organic combustion products
HAZARDOUS: Will not occur.
POLYMERIZATION:

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Toxic or moderately irritating to nasal and respiratory tracts. Can cause headache, dizziness, drowsiness, breathing difficulties, nausea, unconsciousness.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SKIN: Slightly irritating. Prolonged or widespread contact may lead to defatting or dermatitis. EYES: Slightly irritating. May cause redness and/or blurred vision, but reversible within seven days.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Slightly irritating to gastrointestinal tract. Can cause headache, diarrhea, drowsiness, breathing difficulties, nausea, vomiting.
CARCINOGENICITY: None NTP No IARC No OSHA No
currently known ? MONOGRAPHS? REGULATED?
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: Remove contaminated clothing. Thoroughly wash with soap and large amounts of water. Consult a physician if irritation persists. INGESTION: Currently available information does not contraindicate induction of vomiting. Induce vomiting, if conscious, as directed by medical personnel. 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: Secure area and remove all sources of ignition and heat. Prevent additional discharge of material. Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material. For large spills prevent material from entering sewers or watercourses. Contain spill with sand, or earth dikes. Recover as much as possible by pumping. Treat remainder as small spill.
WASTE DISPOSAL METHOD: Dispose 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: Storage temperature: 40-90°F. Shelf life: recommended use within 12 months. Store in tightly closed or properly vented container away from heat, sparks, open flame, or strong oxidizing agents. Containers must be properly grounded and adequate ventilation provided. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released.
OTHER PRECAUTIONS: Use only with adequate ventilation. Dispose of empty containers promptly and properly.

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SECTION VIII - CONTROL MEASURES

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 29 CFR 1910.134.

VENTILATION: Room ventilation is usually adequate.

EYE PROTECTION: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses must not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Depending on the conditions of use, protective gloves, clothing, boots, head and face protection should be worn.

ENGINEERING CONTROLS: Provide local exhaust or general room ventilation to minimize exposure to vapors.

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.

SARA RECRA
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| | | |
|------------------------------|-----|------|
| n-Butyl Alcohol: | yes | U031 |
| WHITE, YELLOW Toluene: | yes | U220 |
| WHITE, YELLOW Ethyl Acetate | no | U112 |
| YELLOW Lead Chromate Pigment | yes | no |

DISCLAIMER OF LIABILITY

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