



1089 White

Revision 1/1/2015

===== SECTION 1 - IDENTIFICATION =====

**Product Name:** 1089 White      **Date:** 01/01/15  
**General Use:** Marking Ink  
**Colors:** White  
**PANNIER P/N** I1089- 2110  
**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 =====

**WARNING: FLAMMABLE**



**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:**

Acute: Moderate irritation of eyes, nose, throat and skin. Ingestion of high concentrations may cause injury.  
Chronic: Repeated excessive exposure may cause lung, liver and kidney effects.

**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 =====

HAZARDOUS COMPONENTS	CAS NUMBER	WEIGHT PERCENT
DENATURED ETHYL ALCOHOL	64-17-4	25
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	20
*DIETHYLENE GYLCOL MONOBUTYL ETHER	112-34-5	2

===== 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 AND EXPLOSION HAZARD DATA =====

**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:** CLOSED CONTAINERS MAY EXPLODE OR COLLAPSE WHEN EXPOSED TO EXTREME HEAT. DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.

===== **SECTION 6 – ACCIDENTAL RELEASE MEASURES** =====

**STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:** ELIMINATE ALL SOURCES OF VAPOR IGNITION. VENTILATE AREA. AVOID BREATHING VAPORS. REMOVE BY SUITABLE INERT ABSORBING MATERIAL.

===== **SECTION 7 – HANDLING & 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** =====

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS	
	OSHA PEL	ACGIH TLV
DENATURED ETHYL ALCOHOL	1000 PPM	1000 PPM
PROPYLENE GLYCOL MONOMETHYL ETHER	N/A	100 PPM
*DIETHYLENE GLYCOL MONOBUTYLYL ETHER	N/A	N/A

**CONTROL MEASURES:** GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

**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.

**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 / CHEMICAL PROPERTIES** =====

**BOILING POINT:** 165 to 446° F.

**SPECIFIC GRAVITY (H2O=1):** 1.2

**VAPOR DENSITY:** HEAVIER THAN AIR

**EVAPORATION RATE:** SLOWER THAN ETHER

**MATERIAL V. O. C. :** 4.58 LB/GL ( 549 G/L ) **VAPOR PRESSURE:** 44 mm Hg @ 77° F

**SOLUBILITY IN WATER:** INSOLUBLE

**APPEARANCE AND ODOR:** THIN COLORED LIQUID, ALCOHOLIC

**FLASH POINT:** 54° F

**METHOD USED:** CLOSED CUP

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

===== **SECTION 10 – STABILITY AND REACTIVITY** =====

**STABILITY:** STABLE

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**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 11 – TOXICOLOGICAL INFORMATION** =====

**INDIVIDUAL INGREDIENT HAZARDS**

DENATURED ETHYL ALCOHOL - INGESTION: LD50, 2,292 MG/KG – RAT. SKIN ABSORPTION: LD50, 3,430 MG/KG – RABBIT. INHALATION: LC50, 8,000 MG/KG – RAT (4 HOURS)

PROPYLENE GLYCOL MONOMETHYL ETHER - INGESTION: LD50, 7,200 MG/KG – RAT. SKIN ABSORPTION: LD50, 13,000 MG/KG – RABBIT. INHALATION: LC50, 7,500 PPM – RAT (6 HOURS)

\*DIETHYLENE GLYCOL MONOBUTYL ETHER - INGESTION: LD50, 6,560 MG/KG – RAT. SKIN ABSORPTION: LD50, 4,120 MG/KG – RABBIT. INHALATION: N/A

**CARCINOGENICITY:** NTP? NO? IARC MONOGRAPHIS? NO OSHA REGULATED? NO  
NONE CURRENTLY KNOWN.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

RESPIRATORY IRRITATION, DERMITITIS AND NAUSEA.

===== **SECTION 12 – ECOLOGICAL INFORMATION** =====

NDA

===== **SECTION 13 – DISPOSAL INFORMATION** =====

**WASTE DISPOSAL METHOD:** INCINERATION IS PREFERRED, IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO SDS CAUTION INFORMATION BEFORE ATTEMPTING CLEANUP.

===== **SECTION 14 – TRANSPORTATION 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, ETC.

===== **SECTION 16 – OTHER INFORMATION** =====

**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.

**DATE:** 01/01/15

**HMIS CODES:** H – 2, F – 3, R – 0, P -

**LEGEND:** NDA – NO DATA AVAILABLE N/D - NOT DETERMINED N/E – NOT ESTABLISHED