



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

**1089 Blue Oil Resistant**

**DATE: 03-11-2013**

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**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:** 1089 BLUE OIL RESISTENT  
**PANNIER P/N:** I1089-3111  
**HMIS CODES:** H 2 F 3 R 0 P N/A

**SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS**

| HAZARDOUS COMPONENTS              | CAS NUMBER | OCCUPATIONAL EXPOSURE LIMITS |           |            | VAPOR PRESSURE |     | WEIGHT PERCENT |
|-----------------------------------|------------|------------------------------|-----------|------------|----------------|-----|----------------|
|                                   |            | OSHA PEL                     | ACGIH TLV | SEE SEC VI | mm Hg @ TEMP   |     |                |
| Denatured ethyl alcohol           | 64-17-5    | 1000 PPM                     | 1000 PPM  | N/A        | 44.0           | 68F | 30             |
| Propylene glycol monoethyl ether  | 107-98-2   | N/A                          | 100 PPM   | N/A        | 10.9           | 77F | 20             |
| *Diethylene glycol monobutyl ther | 112-34-5   | N/A                          | N/A       | N/A        | 0.1            | 77F | 03             |

\*Indicates toxic chemicals(s) subject to the reporting requirements of SECTION 313 of Title III and of 40 CFR 372 are present.\*\*\*

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING RANGE:** 165 to 446° F  
**SPECIFIC GRAVITY (H2O = 1):** 1.13  
**VAPOR DENSITY:** heavier than air  
**EVAPORATION RATE:** slower than ether  
**MATERIAL V. O. C. :** 4.58 LB/GL (549 G/L)  
**SOLUBILITY IN WATER:** insoluble  
**APPEARANCE AND ODOR:** thin colored liquid, alcoholic

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

**FLASH POINT:** 54° F  
**METHOD USED:** closed cup  
**FLAMMABLE LIMITS IN AIR BY VOLUME**  
**LOWER:** 0.9%  
**UPPER:** 19.0%  
**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

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**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** moderate 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:** 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 to eyes, throat and skin. Ingestion of high concentrations may cause injury.

**CHRONIC:** repeated excessive exposures may cause lung, liver and kidney effects..

**CARCINOGENICITY:** NTP? No      **IARC MONOGRAPHS?** 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, 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 29CFR 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.

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**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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