#1081 SOLVENT PM-600
Safety Data Sheet
according to Federal Register / Vol. 77, No. 56 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/02/2016 Version: 1.0

SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : #1081 SOLVENT PM-600
Product code : 1081

1.2. Relevant identified uses of the substance or mixture and uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Pannier Corporation
207 Sandusky Street
Pittsburgh, PA 15212- United States
T 412-323-4900
Sales@pannier.com

1.4. Emergency telephone number
Emergency number : For 24-Hour Emergency Information Call Infortrac: 1-800-535-5053

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
Acute toxicity (oral) H302
Category 4

Full text of H statements: see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H302 - Harmful if swallowed
Precautionary statements (GHS-US) :
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301+P312 - If swallowed: Call a doctor or poison center if you begin to not feel well
P330 - Rinse mouth
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylene glycolmonoethyl ether</td>
<td>(CAS No) 111-90-0</td>
<td>70</td>
<td>Not classified</td>
</tr>
<tr>
<td>ethylene glycol</td>
<td>(CAS No) 107-21-1</td>
<td>30</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>
Full text of classification categories and H statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or a doctor/physician if you begin to not feel well.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, Dry powder, Carbon dioxide, Water spray, Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

3.1. Control parameters

**diethyleneglycolmonoethyl ether (111-90-0)**
Not applicable

**ethylene glycol (107-21-1)**

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>ACGIH Ceiling (mg/m³)</th>
<th>100 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

3.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear, colorless liquid.
Color: Colorless
Odor: Mild odor
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: 383 °F
Flash point: 200 °F
Relative evaporation rate (butyl acetate=1): < 1
Flammability (solid, gas): Nonflammable.
Vapor pressure: 0.06 mm Hg
Relative vapor density at 20 °C: 3.4
Relative density: 1.027
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity
No additional information available
10.2. Chemical stability

Not established

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Direct sunlight and extremely high or low temperatures.

10.5. Incompatible materials

Strong acids and strong bases.

10.6. Hazardous decomposition products

Fumes, Carbon monoxide, Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed.

**CARBITOL SOLVENT PM-600**

<table>
<thead>
<tr>
<th></th>
<th>ATE US (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethyleneglycolmonoethyl ether (111-90-0)</td>
<td>1666.667 mg/kg body weight</td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>5445 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>5940 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.2 mg/l/4h (Rat)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>5445.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>5940.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

**ethylene glycol (107-21-1)**

<table>
<thead>
<tr>
<th></th>
<th>ATE US (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg (Rat; Literature study)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

**diethyleneglycolmonoethyl ether (111-90-0)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>12900 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Flow-through system)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>3940 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>10661 mg/l (Echinoidea; Growth)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>9650 mg/l (96 h; Pimephales promelas; Flow-through system)</td>
</tr>
</tbody>
</table>

**ethylene glycol (107-21-1)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>53000 mg/l (96 h; Pimephales promelas; Static system)</td>
</tr>
</tbody>
</table>
**Ethylene Glycol (107-21-1)**

<table>
<thead>
<tr>
<th></th>
<th>EC50 Daphnia 1</th>
<th>LC50 fish 2</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 10000 mg/l (24 h; Daphnia magna)</td>
<td>40761 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Static system)</td>
<td>&gt; 10000 mg/l (168 h; Scenedesmus quadricauda)</td>
<td>2000 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**CARBITOL SOLVENT PM-600**

Persistence and degradability: Not established.

**Diethylene glycol monoethyl ether (111-90-0)**

Persistence and degradability: Readily biodegradable in water.

- **Biochemical oxygen demand (BOD)**: 0.20 g O₂/g substance
- **Chemical oxygen demand (COD)**: 1.85 g O₂/g substance
- **ThOD**: 1.907849 g O₂/g substance
- **BOD (% of ThOD)**: 0.11% ThOD

**Ethylene Glycol (107-21-1)**

Persistence and degradability: Readily biodegradable in water. Biodegradable in the soil.

- **Biochemical oxygen demand (BOD)**: 0.47 g O₂/g substance
- **Chemical oxygen demand (COD)**: 1.24 g O₂/g substance
- **ThOD**: 1.29 g O₂/g substance
- **BOD (% of ThOD)**: 0.36% ThOD

### 12.2. Bioaccumulative potential

**CARBITOL SOLVENT PM-600**

Bioaccumulative potential: Not established.

**Diethylene glycol monoethyl ether (111-90-0)**

- **Log Pow**: -1.19 - -0.08
- **Bioaccumulative potential**: Bioaccumulation: not applicable.

**Ethylene Glycol (107-21-1)**

- **BCF fish 1**: 10 (72 h; Leuciscus idus)
- **BCF other aquatic organisms 1**: 0.21 - 0.6 (Procambarus sp.; Chronic)
- **BCF other aquatic organisms 2**: 190 (24 h; Algae)
- **Log Pow**: -1.34 (Experimental value)

Bioaccumulative potential: Low potential for bioaccumulation (BCF < 500).

### 12.2. Mobility in Soil

**Diethylene glycol monoethyl ether (111-90-0)**

- **Surface tension**: 0.032 N/m (25 °C)

**Ethylene Glycol (107-21-1)**

- **Surface tension**: 0.048 N/m (20 °C)

### 12.2. Other adverse effects

- **Effect on the global warming**: No known effects from this product.
- **GWPmix comment**: No known effects from this product.
- **Other information**: Avoid release to the environment.

### SECTION 13:

#### 13.1. Waste treatment methods

- **Waste disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents & container to an approved hazardous waste plant and/or drum reconditioner.
- **Ecology - waste materials**: Avoid release to the environment.
SECTION 14: Transport information

Department of Transportation (DOT)
In accordance
with DOT not applicable

TDG
Not applicable

Transport by sea
Not applicable

Air transport
Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations
ethylene glycol (107-21-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
CERCLA RQ 5000

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations
Ethylene glycol (107-21-1)
U.S. – Massachusetts – Right to Know List
U.S. – New Jersey – Right to Know List

SECTION 16: Other information

Other information : None.
Full text of H-phrases:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
</table>

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
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