Unifide Industries L.L.C.  
Material Safety Data Sheet  
"Gas Line Antifreeze - 12812"

**SECTION 1**  
IDENTIFICATION

<table>
<thead>
<tr>
<th>MANUFACTURER:</th>
<th>Unifide Industries L.L.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDRESS:</td>
<td>121 Highway 36, West Long Branch, NJ 07764</td>
</tr>
<tr>
<td>EMERGENCY TELEPHONE:</td>
<td>732-728-1700; Chemtrec 1-800-424-9300</td>
</tr>
<tr>
<td>CHEMICAL NAME &amp; SYNONYMS:</td>
<td>Gas Line Antifreeze</td>
</tr>
<tr>
<td>CHEMICAL FAMILY:</td>
<td>Methanol Based</td>
</tr>
<tr>
<td>FORMULA:</td>
<td>98 - 100% Methanol</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER:</td>
<td>67-56-1</td>
</tr>
<tr>
<td>DOT SHIPPING CLASSIFICATION:</td>
<td>Consumer Commodity</td>
</tr>
<tr>
<td>PRODUCT NUMBER:</td>
<td>12812</td>
</tr>
</tbody>
</table>

**SECTION 2**  
HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CAS #</th>
<th>%</th>
<th>TLV (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>90</td>
<td>100</td>
</tr>
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</table>

**SECTION 3**  
PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING RANGE:</td>
<td>@760 mm Hg, 148.3°F</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY:</td>
<td>0.792 @ 60°F</td>
</tr>
<tr>
<td>VAPOR PRESSURE AT 20°C:</td>
<td>9600 HG</td>
</tr>
<tr>
<td>VAPOR DENSITY (air = 1):</td>
<td>1.11</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER:</td>
<td>Complete</td>
</tr>
<tr>
<td>% VOLATILE BY VOLUME:</td>
<td>100%</td>
</tr>
<tr>
<td>EVAPORATION RATE:</td>
<td>2.0</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR:</td>
<td>Colorless, clear, mild alcohol odor</td>
</tr>
</tbody>
</table>

Page 1
SECTION 4
FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 60.0°F - Closed Cup
54.0°F - Open Cup

AUTO IGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS IN AIR: LEL = 2.0  UEL = 12 (calculated)

EMERGENCY OVERVIEW: Material can burn with little or no visible flame.

EXTINGUISHING MEDIA: Water, fog, alcohol foam, dry chemical or CO2 for small fires

SPECIAL FIRE FIGHTING PROCEDURE: Do not enter confined fire space without full gear which includes self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build up which could result in the container rupturing.

SECTION 5
REACTIVITY DATA

STABILITY: This material is stable.

INCOMPATIBILITY: Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning can produce carbon monoxide or other organic compounds.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 8
HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 200 ppm (vapor or mist)

EFFECTS OF OVEREXPOSURE: Irritating to eyes and skin. Inhalation irritates nose and throat. Extreme high levels cause drowsiness, headache, nausea, dizziness, unconsciousness and may produce adverse effects on vision.
EYE CONTACT: May cause eye injury, which may persist for several days. Liquid and vapor in high concentrations cause irritation, tearing and a burning sensation.

SKIN: Repeated or prolonged contact causes drying, brittleness, cracking and irritation. Prolonged and repeated skin contact with methanol-soaked material has produced toxic effects including vision effects and death.

INHALATION: Exposure to high vapor concentration may produce nausea, vomiting, headache, dizziness, central nervous depression, and vomiting.

INGESTION: Poisonous or fatal if swallowed. A small amount (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with plenty of water for at least 15 minutes. If irritation persists, obtain medical assistance.

SKIN: Flush with plenty of water, wash with mild soap if available. If irritation persists, obtain medical assistance.

INHALATION: Remove to fresh air, give artificial respiration if breathing has stopped. Obtain medical assistance.

INGESTION: If swallowed give two glasses of water. If conscious, then induce vomiting. Seek medical attention immediately.

SECTION 7
SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED:

Waste suitable protective equipment. Large spills should be contained and collected. Small spills can be collected or may be absorbed with appropriate liquid absorbing materials. All spill response and disposal should be carried out in accordance with federal, state and local requirements.

WASTE DISPOSAL METHOD: Consult with local sewer, municipal, state and/or federal agencies to determine appropriate current disposal options.
SECTION 8
SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: Provide adequate ventilation with local exhaust system
VENTILATION: Mechanical or other
PROTECTIVE GLOVES: Chemical resistant gloves recommended
EYE PROTECTION: Safety glasses or goggles
OTHER PROTECTIVE EQUIPMENT: Wear chemical resistant pants and jacket

SECTION 9
SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not breathe mist or spray. Follow good work/hygiene practices. Provide safety shower and wash in immediate area. Workers should wash with soap and water before eating, smoking or using toilet facilities. Launder contaminated clothing before re-use.