### IMPORTANT MATERIAL SAFETY DATA SHEET

**Read Carefully Before Using Chemical**

*OSHA requires that this form be kept on file.

**Product No.** KM 622 M

**Product Name** ETHYL ALCOHOL, SPECIALY DENATURED

### SECTION I

<table>
<thead>
<tr>
<th>Chemical Synonyms</th>
<th>Proprietary Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula</td>
<td>C₂H₅OH</td>
</tr>
<tr>
<td>CAS No.</td>
<td>64-17-5</td>
</tr>
</tbody>
</table>

### SECTION II

**Principal Hazardous Component(s)**

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>PEL</th>
<th>TLV Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>&gt;9</td>
<td>1000 ppm (TWA)</td>
<td>1000 ppm (TWA)</td>
</tr>
<tr>
<td>Isoamyl Alcohol</td>
<td>&gt;9</td>
<td>400 ppm (TWA)</td>
<td>400 ppm (TWA)</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone</td>
<td>.9</td>
<td>50 ppm(TWA)</td>
<td>50 ppm(TWA)</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>5</td>
<td>200 (skin)</td>
<td>200(skin)</td>
</tr>
</tbody>
</table>

### SECTION III

**PHYSICAL DATA**

- **Melting Point (°F)**: <114°C
- **Boiling Point (°F)**: 78°C
- **Vapor Pressure (mm Hg)**: 47 @ 25°C
- **Vapor Density (Air=1)**: 1.6
- **Solubility in Water**: 100%

### SECTION IV

**FIRE AND EXPLOSION HAZARD DATA**

- **Flash Point (Method Used)**: 13° closed cup
- **Flammable Limits in Air**: Lower 3.3 Upper 19.0
- **Extinguisher Media**: Water spray, dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

**Special Firefighting Procedures**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### SECTION V

**HEALTH HAZARD DATA**

**Threshold Limit Value**

See Section II

**Effects of Overexposure**


**Emergency and First Aid Procedures**

Skin: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Eyes: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.

### SECTION VI

**REACTIVITY DATA**

- **Stability**: Stable
- **Conditions to Avoid**: Avoid heat and ignition sources.
- **Incompatibility (Materials to Avoid)**: Strong oxidants, silver salts, halogen halides, alkali metals, metal hydrides.
- **Hazardous Decomposition Products**: Carbon oxides.
- **Hazardous Polymerization**: May Occur
- **Conditions to Avoid**: None

### SECTION VII

**SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled

Ventilate area of leak or spill. Remove all sources of ignition. Clean up personnel require protective clothing and respiratory protection from vapor. Small spills may be absorbed on paper towels and evaporated in a fume hood. Allow enough time for fumes to clear hood. Then ignite paper in a suitable location away from combustible materials. Large spills: Contain and recover liquid while possible or absorb with vermiculite, dry sand, earth or similar material. Scoop up with non-sparking tool and place in a closed container.

**Disposal Method**

Discharge, treat, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Can be incinerated in a RCRA-compliant combustible chamber or absorb with vermiculite, dry sand, earth or similar material. Scoop up with non-sparking tools, place in closed container, and dispose in an approved facility. Do not flush to the sewer.

**SPECIAL PROTECTION INFORMATION**

**Respiration Protection (Specify Type)**: Organic cartridge or self-contained.

**Ventilation**

- **Local Exhaust**: X
- **Mechanical (General)**: X

**Protective Gloves**

Vinyl or Rubber

**Other Protective Equipment**

Lab coat

**SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use. Store in a cool, well ventilated location.

**Other Precautions**

Read labels on container before using. Do not wear contact lenses while working with chemicals.

**Conditions Aggravated/Target Organs**: Persons with skin, eye, respiratory or kidney/liver disorders may be more susceptible. Liver/Kidney.

Approved by Steven C. Quandt

Effective Date: 04/05/95

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.