SECTION 1 - IDENTIFICATION

PRODUCT (TRADE) NAME: GG-K-30, 36 Series (Water Base Binder)

CHEMICAL FAMILY:

SUPPLIER: OMEGA ENGINEERING INC.
PO BOX 4047
STAMFORD, CT 06907

TELEPHONE: (203) 359-1660

DATE PREPARED: SUPERSEDES:

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

<table>
<thead>
<tr>
<th>Hazardous Component(s) (Chemical &amp; Common names)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Exposure Limits</th>
<th>% (optional)</th>
<th>CAS NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylamine</td>
<td>25 ppm</td>
<td>10 ppm</td>
<td>T.W.A.</td>
<td></td>
<td>121-44-8</td>
</tr>
</tbody>
</table>

* Subject to Reporting Requirements under SARA Title III, Section 13: None

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Bolling Point: 180 °F - 244 °F

Vapor Pressure (mm Hg): 5.9 - 37 mm

Solubility in Water: Soluble

Appearance and Odor: Opaque Liquid, Amine Odor

Specific Gravity (H₂O = 1): 1.05 - 1.18

Vapor Density (Air = 1): Heavier

Reactivity in Water: None

Melting Point: N/A

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: Unknown F.C.

Method Used: TCC

Flammable Limits in Air % By Volume:
LEL Lower: 1.4
UEL Upper: 12. (Component Solvents)

Auto-Ignition Temperature: Unknown

Extinguishing Media: Foam, CO₂, Dry chemical, Water fog

Special Fire Fighting Procedures: Use NIOSH approved, self-contained breathing apparatus and protective clothing. Water may be used to cool containers to prevent pressure buildup and possible auto-ignition when exposed to extreme heat. If water is used, fog nozzles are preferable. During emergency conditions, over-exposure to decomposition of products may cause health hazard.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed container may explode when exposed to extreme heat. Application to hot surfaces requires special precautions.
SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Stable  Conditions to Avoid: N/A

Compatibility (Materials to Avoid): None known

Hazardous Decomposition Products: Burning Releases CO, CO₂, H₂O

Hazardous Polymerization: Will Not Occur  Conditions to Avoid: N/A

SECTION 6 - HEALTH HAZARDS

Acute: None known  Chronic: None known

Signs and Symptoms of Exposure: No known adverse chronic health effects, but unnecessary exposure to any chemical should be avoided. This product may enhance allergic conditions by exposure.

Medical Conditions Generally Aggravated by Exposure: None known

Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program: No  I.A.R.C Monographs: No  OSHA: No

Emergency and First Aid Procedures: See below

Routes of Entry:
Inhalation: No problem - threshold limit unknown.
Eyes: Slight irritation. Flush with water for 15 minutes.
Skin: None - to slight effect.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Keep from freezing. Use reasonable care and caution. Store below 90 °F.

Other Precautions: None known

Steps to be Taken in Case Material is Released or Spilled: Use absorbent material to collect and contain for salvage or disposal.

Waste Disposal Methods (Consult Federal, State, and Local Regulations): —
SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type): Not required

Ventilation: Adequate
Local Exhaust: May be needed

Mechanical (General): — Special: Recommended

Other: N/A

Protective Gloves: N/A

Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Remove chemical from skin prior to eating or smoking.
MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PRODUCT (TRADE) NAME: GG-K-30, 36 Series (Clear Epoxy Varnish)

CHEMICAL FAMILY:

SUPPLIER: OMEGA ENGINEERING INC.
PO BOX 4047
STAMFORD, CT 06907

DATE PREPARED: 12/30/89
SUPERSEDES:

TELEPHONE: (203) 359-1660

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

<table>
<thead>
<tr>
<th>Hazardous Component(s) (Chemical &amp; Common names)</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Exposure Limits</th>
<th>% (optional)</th>
<th>CAS NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone *I</td>
<td>200</td>
<td>200</td>
<td></td>
<td>&lt;32.0%</td>
<td>78-93-3</td>
</tr>
<tr>
<td>Toluel *II</td>
<td>100</td>
<td>100</td>
<td></td>
<td>&lt;19.0%</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Propylene Glycol *III</td>
<td>None</td>
<td>Established</td>
<td></td>
<td></td>
<td>108-65-6</td>
</tr>
<tr>
<td>Monomethyl Ether Acetate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone *IV</td>
<td>100</td>
<td>50</td>
<td></td>
<td>&lt;11.0%</td>
<td>108-10-1</td>
</tr>
<tr>
<td>N-Butyl Alcohol *V</td>
<td>100</td>
<td>50 (Skin)</td>
<td></td>
<td>&lt;5.0%</td>
<td>71-36-3</td>
</tr>
<tr>
<td>Ethylene Glycol Mono Butylether Acetate *VI</td>
<td>None</td>
<td>Established</td>
<td></td>
<td></td>
<td>112-07-2</td>
</tr>
</tbody>
</table>

* Subject to Reporting Requirements of SARA, Title III, Section 313.

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 175 °F - 378 °F (Components)
Specific Gravity (H₂O = 1): .908 - .9095

Vapor Pressure (mm Hg): 1 mm - 70 mm (Components)
Vapor Density (Air = 1): Heavier

Solubility in Water: Very slight
Reactivity in Water: None

Appearance and Odor: Clear straw-colored liquid; Ketone odor.

Melting Point: N/A

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point: 21 °C.
Method Used: TCC

Flammable Limits in Air % By Volume: LEL Lower: 0.05 UEL Upper: 7.0 (Components)

Auto-Ignition Temperature: —
Extinguishing Media: Foam, CO₂, Dry chemical, Water fog
SECTION 4 - FIRE AND EXPLOSION DATA (CONT'D)

Special Fire Fighting Procedures: Use NIOSH approved, self-contained breathing apparatus and protective clothing. Water may be used to cool containers to prevent pressure buildup and possible auto-ignition when exposed to extreme heat. If water is used, fog nozzles are preferable. During emergency conditions, over-exposure to decomposition of products may cause health hazard.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed container may explode when exposed to extreme heat. Application to hot surfaces requires special precautions.

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Stable
Conditions to Avoid: Sparks, open flame, static electricity

Compatibility (Materials to Avoid): Oxidizing materials

Hazardous Decomposition Products: Burning releases CO, CO₂

Hazardous Polymerization: Will Not Occur
Conditions to Avoid: Sparks, open flame, static electricity

SECTION 6 - HEALTH HAZARDS

Acute: Eye, skin, nose, and throat irritation.

Chronic: Respiratory allergic sensitivity, nervous system depression and damage to liver, kidney, brain; blindness.

Signs and Symptoms of Exposure: Headache, dizziness, staggering gait, confusion, eye and blood disorders.

Medical Conditions Generally Aggravated by Exposure: Pre-existing skin, lung, heart, liver, kidney, eye and blood disorders may be aggravated by exposure to this material.

Chemical Listed as Carcinogen or Potential Carcinogen: No
National Toxicology Program: No
I.A.R.C Monographs: No
OSHA: No

Emergency and First Aid Procedures: See below

Routes of Entry:
Inhalation: Remove from exposure. Remove to fresh air. Restore breathing. Treat symptomatically. Consult physician and keep warm and quiet.
Eyes: Flush with large amounts of water for about 15 minutes. Consult physician.
Skin: Wash affected areas with soap and water. Remove contaminated clothing. Consult physician if irritation persists.
Ingestion: Drink 1-2 glasses of water to dilute. DO NOT induce vomiting. Immediately consult physician or Poison Control Board.
SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Avoid storage in high temperature areas. Keep away from sparks, open flame, and static electricity. Keep containers tightly closed and upright. DO NOT weld or flame-cut an empty drum. Drums of material should be grounded and bonded when pouring.

Other Precautions: Do not take internally. Avoid prolonged contact with skin. Ground and bond containers when pouring.

Steps to be Taken in Case Material is Released or Spilled: Use non-sparking tools; mop up and ventilate adequately. Avoid sparks, open flames and static electricity. Flush area with water.

Waste Disposal Methods (Consult Federal, State, and Local Regulations): DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type): Maintain safe TLV. At concentrations exceeding TLV, use NIOSH approved respirators.

Ventilation:
Local Exhaust: Preferred Mechanical (General): — Special: — Other: —

Protective Gloves: Required for prolonged or repeated contact.

Eye Protection: Use safety eyewear with splash guards or side shields.

Other Protective Clothing or Equipment: Use of protective clothing recommended. Avoid skin contact.

Work/Hygienic Practices: Wash thoroughly after handling.