

**MATERIAL SAFETY DATA SHEET**

MSDS-0180 (part A)  
GG-K-30, 36 Series  
REV. DATE: 5/13/93

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**SECTION 1 - IDENTIFICATION**

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

**CHEMICAL FAMILY:**

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

**DATE PREPARED:**  
**SUPERSEDES:**

**TELEPHONE:** (203) 359-1660

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**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY**

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Hazardous Component(s) (Chemical & Common names)	OSHA PEL	ACGIH TLV	Other Exposure Limits	% (optional)	CAS NO.
Triethylamine	25 ppm	10 ppm	T.W.A.		121-44-8

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

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**SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

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<b>Boiling Point:</b> 180 °F - 244 °F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 1.05 - 1.18
<b>Vapor Pressure (mm Hg):</b> 5.9 - 37 mm	<b>Vapor Density (Air = 1):</b> Heavier
<b>Solubility in Water:</b> Soluble	<b>Reactivity in Water:</b> None
<b>Appearance and Odor:</b> Opaque Liquid, Amine Odor	<b>Melting Point:</b> N/A

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**SECTION 4 - FIRE AND EXPLOSION DATA**

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<b>Flash Point:</b> Unknown F.C.	<b>Method Used:</b> TCC
<b>Flammable Limits in Air % By Volume:</b>	<b>LEL Lower:</b> 1.4 <b>UEL Upper:</b> 12. (Component Solvents)
<b>Auto-Ignition Temperature:</b> Unknown	<b>Extinguishing Media:</b> Foam, CO <sub>2</sub> , 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.



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### SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

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**Stability:** Stable

**Conditions to Avoid:** N/A

**Compatibility (Materials to Avoid):** None known

**Hazardous Decomposition Products:** Burning Releases CO, CO<sub>2</sub>, H<sub>2</sub>O

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid:** N/A

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### SECTION 6 - HEALTH HAZARDS

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**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.

**Ingestion:** Mild discomfort. Drink plenty of water. DO NOT induce vomiting. Consult physician.

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### SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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**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):** —



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### SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

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**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.

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MSDS-0180 (part B)  
GG-K-30, 36 Series  
REV. DATE: 5/13/93

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**SECTION 1 - IDENTIFICATION**

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**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

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**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY**

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

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

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**SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS**

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**Boiling Point:** 175 °F - 378 °F (Components)      **Specific Gravity (H<sub>2</sub>O = 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

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**SECTION 4 - FIRE AND EXPLOSION DATA**

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**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, CO<sub>2</sub>, Dry chemical, Water fog



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### SECTION 4 - FIRE AND EXPLOSION DATA (CONT'D)

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**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.

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### SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

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**Stability:** Stable

**Conditions to Avoid:** Sparks, open flame, static electricity

**Compatibility (Materials to Avoid):** Oxidizing materials

**Hazardous Decomposition Products:** Burning releases CO, CO<sub>2</sub>

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid:** Sparks, open flame, static electricity

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### SECTION 6 - HEALTH HAZARDS

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**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.



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### SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

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**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.

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### SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

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**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.

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