



## MATERIAL SAFETY DATA SHEET

MSDS-0176  
180A and RD 250 Ink  
REV. DATE: 3/10/93

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### SECTION 1 - IDENTIFICATION

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**PRODUCT (TRADE) NAME:** Ink for Recorders

**CHEMICAL FAMILY:**

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

**DATE PREPARED:** 1/26/93  
**SUPERSEDES:**

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

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### SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Aqueous Writing Ink:	N.A.	N.A.	N.A.	—
Non-hazardous components are contained.				
The composition is as follows:				
Synthetic organic dyes				1.7%
Gum Arabic				2.6%
Glycerol				31.9%
Antiseptic				0.1%
Ethanol				4.0%
Water				<u>59.7%</u>
Total				100.0%

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### SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

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<b>Boiling Point:</b> above 100°C	<b>Specific Gravity (H<sub>2</sub> = 1):</b> 1.090/20°C
<b>Vapor pressure (mm Hg):</b> N.A.	<b>Melting Point:</b> N.A.
<b>Vapor Density (AIR=1):</b> N.A.	<b>Evaporation Rate (Butyl Acetate =1):</b> N.A.
<b>Solubility in Water:</b> Very good	<b>Ignition Temperature:</b> N.A.
<b>Appearance and Odor:</b> Liquid, fragrant	<b>pH:</b> 3.5

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### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

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<b>Flash Point (Method Used):</b> N.A.	<b>Flammable Limits:</b> N.A.	<b>LEL</b>	<b>UEL</b>
<b>Extinguishing Media:</b> Water			
<b>Special Fire Fighting Procedures:</b> N.A.			
<b>Unusual Fire and Explosion Hazards:</b> N.A.			



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### SECTION 5 - REACTIVITY DATA

**Stability:** Unstable:  **Conditions to Avoid:**  
Stable: X

**Incompatibility (Material to Avoid):** N.A.  
**Hazardous Decomposition or Byproducts:** N.A.

**Hazardous Polymerization** **May Occur:**  **Conditions to Avoid:**  
**Will Not Occur:** X

### SECTION 6 - HEALTH HAZARD DATA

**Route(s) of Entry:** **Inhalation?**  **Skin?**  **Ingestion?**  
X

**Health Hazards (Acute and Chronic):** N.A.

**Carcinogenicity:** **NTP?**  **IACR Monographs?**  **OSHA Regulated?**  
No No No

**Signs and Symptoms of Exposure:** N.A.

**Medical Conditions Generally Aggravated by Exposure:** N.A.

**Emergency and First Aid Procedures:** Rinse with fresh water immediately.

### SECTION 7 - PRECAUTION FOR SAFE HANDLING AND USE

**Steps to be taken in Case Material is Released or Spilled:** Rinse with fresh water.

**Waste Disposal Method:** Wash off with water.

**Precautions to be taken in Handling and Storing:** Wash off with water.

**Other Precautions:** None

### SECTION 8 - CONTROL MEASURES

**Respiratory Protection (Specify type):** N.A.

**Ventilation**

**Local Exhaust:**

**Special:**

**Mechanical (General):**

**Other:** X

**Protection Gloves:** Provide if required

**Eye Protection:** Optional

**Other Protective Clothing or Equipment:** N.A.

**Work/Hygienic Practices:** None

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