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## MATERIAL SAFETY DATA SHEET

### EMERGENCY ASSISTANCE - 24 hour

For emergency assistance involving chemicals call CHEMTREC (800) 424-9300.

### SECTION 1: MATERIAL INFORMATION

**Common Name:** ZINC PVA FIXATIVE  
**Synonyms:** Polyvinyl Alcohol Fixative  
**Catalog Number:** E9210, E9250, E9252, E9906, E9907, R7010,  
**CAS #:** N/AV  
**WARNING:** POISON, FLAMMABLE

### SECTION 2: HAZARDOUS INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Approximate Concentration</u>
Zinc Sulfate	7733-02-0	Metallic Salt	ZnSO <sub>4</sub>	less than 20%
Ethanol, denatured	64-17-5	Alcohol	C <sub>2</sub> H <sub>5</sub> OH	31%
Acetic Acid, Glacial	64-19-7	Organic Acid	CH <sub>3</sub> COOH	5%

### SECTION 3: PHYSICAL DATA

<b>Appearance:</b> Clear, colorless liquid	<b>pH:</b> N/AV	<b>Vapor Density:</b> N/AV
<b>Boiling Point:</b> N/AV	<b>Solubility in Water:</b> Appreciable	<b>Flash Point:</b> 22°C (72°F) cc
<b>Melting Point:</b> N/AV	<b>Vapor Pressure:</b> N/AV	<b>Evaporation Rate:</b> N/AV
<b>Odor:</b> Alcohol odor	<b>Specific Gravity:</b> N/AV	

### SECTION 4: FIRE AND EXPLOSION HAZARD

**Flammable:** Yes: Flammable liquid

**Flammable Limits:**

Upper: N/AV Lower: N/AV

**Extinguish Media:**

Carbon dioxide or dry chemical for small fires.  
 "Alcohol" foam or water spray for large fires.

**Special Hazards:**

Wear self-contained, positive-pressure breathing apparatus and full protective clothing.

**Unusual Fire and Explosion Hazards:**

Emits toxic fumes under fire conditions.

### SECTION 5: REACTIVITY DATA

**Stable:**  **Unstable:**

**Conditions to Avoid:**

Heat, sparks, open flame

**Materials to Avoid:**

- Water -
- Acids - (Strong mineral)
- Bases - (Strong)
- Corrosives -
- Oxidizers -
- Other: Metals, nitric acid, potassium, and sodium

**Hazardous Decomposition Products:**

Carbon dioxide, carbon monoxide, SO<sub>x</sub> and ZnO

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**SECTION 6: HEALTH HAZARD DATA**


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To the best of our knowledge, the chemical, physical, and toxicological properties of this mixture have not been thoroughly investigated. Presented below are specific data on each of the subcomponent ingredients:

<u>Hazardous Component</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>TXDS</u>
Zinc Sulfate	Less than 20%	N/AV	N/AV
Ethanol, denatured	31%	1000 ppm	N/AV
Acetic Acid, Glacial	5%	10 ppm	ORL-HMNTDLO: 1470 mcg/kg

**Effects of Overexposure (Acute and Chronic):**

**POISON:** Moderately toxic by ingestion. Poison by skin absorption in large quantities. May cause burns, eye damage, blindness, nausea, vomiting, inebriation headache, coughing, chest pain, stomach pain, damage of nasal and respiratory passages, mucous membranes, and throat tissue. Vapors may cause drowsiness.

**Carcinogenicity:** These products do not contain any carcinogens at 0.1% or greater.

**First Aid Procedure:**

**Skin Contact:** Wash with soap and copious amounts of water for at least 15 minutes.  
**Eye Contact:** Flush with water for 15 minutes; get immediate medical attention.  
**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen. Seek medical attention.  
**Ingestion:** If conscious, induce vomiting.

Discard all contaminated clothing. In all cases of overexposure, seek medical attention immediately.

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**SECTION 7: SPILL OR LEAK PROCEDURES AND DISPOSAL**


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Evacuate and ventilate area.

**Steps to be taken if Material is Released or Spilled:**

Pick up using an absorbent material and place in closed container. Wash area and put washings in closed container.

**Waste Disposal Method:**

Observe all local, provincial, state, and federal regulations.

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**SECTION 8: SPECIAL PROTECTION INFORMATION**


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Pick up using an absorbent material and place in closed container.  
 Wash area and put washings in closed container.

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**SECTION 9: SPECIAL HANDLING AND STORAGE PRECAUTIONS**


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Keep containers tightly closed. Store in cool, dry, area away from heat, sparks and open flame. Protect from physical damage. Wash hands after handling.

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**SECTION 10: MSDS PREPARATION AND INFORMATION**


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**Date Issued:** 3/93  
**Revision Date:** 01/2011  
**Revised By:** Charissa H. Bolind

**Authorized Signature:** \_\_\_\_\_


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