**VANCIDE® MZ-98**

**Industrial Preservative**

**ACTIVE INGREDIENT:**
Ziram (Zinc dimethyldithiocarbamate) ...................... 98.25%
OTHER INGREDIENTS: .......................................................... 1.75%
TOTAL: .......................................................... 100.00%

**EPA Reg. No. 45728-14**
**EPA Est. No. 32557-BEL-1**

**KEEP OUT OF REACH OF CHILDREN**
DANGER PELIGRO

---

**FIRST AID**

| If in eyes | • Hold eye open and rinse slowly and gently with water for 15-20 minutes.  
|           | • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
|           | • Call a poison control center or doctor for treatment advice. |

| If inhaled | • Move person to fresh air.  
|           | • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible  
|           | • Call a poison control center or doctor for further treatment advice. |

| If swallowed | • Call a poison control center or doctor immediately for treatment advice.  
|              | • Have person sip a glass of water if able to swallow.  
|              | • Do not induce vomiting unless told to do so by a poison control center or doctor.  
|              | • Do not give anything by mouth to an unconscious person. |

| If on skin or clothing | • Take off contaminated clothing.  
|                       | • Rinse skin immediately with plenty of water for 15-20 minutes.  
|                       | • Call a poison control center or doctor for treatment advice. |

---

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800) 424-9300. For product usage information, phone Taminco Inc., at (800) 223-3258 from 9:00 AM to 5:00 PM Eastern time.

**NOTE TO PHYSICIAN**

Possible mucosal damage may contraindicate gastric lavage.

---

**NET WEIGHT:** 55 POUNDS (25 KG)
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, causes irreversible eye damage. May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Do not breathe dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear a mask or pesticide respirator jointly approved by the Mining Enforcement and Safety Administration, and the National Institute for Occupational Safety and Health. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment washwaters.

SAFETY MEASURES, FIRST AID

• Wear chemical resistant gloves, inhalation mask or respirator, safety goggles or face shield, and coveralls.
• Provide adequate ventilation.
• Keep out of reach of children and away from food, drink, and feeding stuffs.
• Wash thoroughly with soap and water after handling.
• In case of contact with eyes, rinse immediately with plenty of water and contact a physician.
• In swallowed, drink large quantities of water and seek medical attention immediately.
• Store in a cool dry place, away from sparks or open flame.

DIRECTIONS FOR USE

This product may be used in the formulation of the following non-pesticide products:

• latex paint
• paper and paperboard
• paper coatings
• water reduced industrial materials
• adhesives
• industrial yarns and fabrics
• dried films

Mold inhibitor for Latex Paint - Exterior exposure testing suggests certain loadings as starting points for the evaluation of VANCIDE MZ-98. For exterior latex paints, use 1 to 3% of VANCIDE MZ-98 based on total weight (equal to about 10 to 30 lbs. per 100 gallons), added during the pigment dispersion stage of manufacture. Do not use in formulation containing metallic drier.

Mold Resistant Paper and Paperboard - To impart mold resistant properties to paper or paperboard, apply as a surface treatment on size press or calendar stack. VANCIDE MZ-98 diluted as required to retain 0.5% solids on the weight of the sheet. See TAPPI Standard T487M-54 for mold resistance evaluation method. Do not use for the manufacture of mold-resistant paper or paperboard intended for food packaging purposes.

Preservation of Paper Coatings - To preserve non-food contact paper coatings, add 0.1% VANCIDE MZ-98 by weight or the dry starch or protein.

Preservation of Adhesives - To preserve starch and synthetic latex adhesive formulations (dry, after water is added by end-user) against bacterial degradation add 0.185% to 0.5% VANCIDE MZ-98 by weight of total composition, during manufacture of adhesive composition. This product is cleared for use in adhesives used in food packaging (FDA § 175.105).
Preservation of Industrial Yarns and Fabrics - For long-term protection of industrial yarns and fabrics from mildew, rot and bacterial decomposition, use 1.25% ± 0.25% VANCIDE MZ-98 based on the weight of the material applied in water dispersion.

Preservative for Dried Films - The dried films of water-based or water-reduced industrial materials are often subject to defacement by mold and mildew. Such materials include wall and ceiling textures, wallpaper paste, wallboard, joint compounds, spackles, wood fillers, caulks and sealants. VANCIDE MZ-98 should be added at 0.185 to 0.5% (based on potential dry-film solids weight) during the initial phase of formula preparation to assure adequate wetting and disbursement.

Short-term Spoilage Protection – VANCIDE MZ-98 can supply short-term protection from spoilage to water-reduced industrial materials including wallboard compounds. For successful control of spoilage, the use of good quality water and clean manufacturing conditions are required. In ready-mix products, add 0.4 - 0.5% VANCIDE MZ-98 to the water-based formula during manufacture, based on total weight. In dry-powder formulas, the amount of VANCIDE MZ-98 added during final manufacture should be sufficient to attain 0.4 - 0.5% VANCIDE MZ-98 in the final mixture, once water is added at the use site.

IMPORTANT

Consult with Taminco Inc. or the Environmental Protection Agency to obtain information on currently registered uses for Ziram as they are subject to change.

Subsequent formulators are responsible for providing documentation to support any required registration of their product(s).

<table>
<thead>
<tr>
<th>STORAGE AND DISPOSAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not contaminate water, food or feed by storage or disposal.</td>
</tr>
<tr>
<td>PESTICIDE STORAGE: Store in a cool, dry place in the original container and away from sources of ignition.</td>
</tr>
<tr>
<td>PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.</td>
</tr>
<tr>
<td>CONTAINER HANDLING: Do not reuse or refill this container. Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.</td>
</tr>
</tbody>
</table>

Taminco Inc. makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label.

VANCIDE MZ-98® is a registered trademark of Taminco S.A., a Belgian corporation.

NET WEIGHT: 55 POUNDS (25 KG)