

PM 31 6035-47

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

AGRICULTURAL USES: Prior to all housing applications warning signs must be posted on confinement buildings as specified in State, Local and Federal Regulations. Where required, two trained personnel must be present during introduction of the Formaldehyde Solution.

FOR FUMIGATION OF HATCHING EGGS: Incubators and hatcheries may be fumigated using a maximum of 1 FL OZ of Vineland Formaldehyde Solution for each 30 CU FT of space. Manufacturers information should be consulted for the area of a particular machine. The solution is to be placed in an open container and allowed to naturally evaporate. Potassium permanganate should not be used as a catalyst to liberate formaldehyde gas. Fumigation may be performed on both empty incubators and incubators containing eggs. Incubator or hatchery must be vented directly to the outside air. The room housing the incubator/hatchery should also have adequate ventilation. Warning signs must be placed on incubator/hatchery and in surrounding area before fumigation may begin.

Eggs to be fumigated should be held on clean racks or egg flats which permit air circulation. Fumigation is most effective if applied to nest clean eggs as soon after collection as possible or when eggs are delivered to the hatchery or when set in incubator(s). Fumigation of eggs should not be done between 24 hours and five (5) days incubation because embryo damage may occur at this time.

Fumigation procedure may be repeated at 24 hour intervals up to 19th day of incubation. If fumigation is to be continued after 19th day, the amount of Formaldehyde Solution normally used must be reduced by 50% (½ FL OZ/30 CU FT). Last application of Formaldehyde Solution should be added at least 12 hours before chicks are pulled to allow time for its complete evaporation. General access to the area may be allowed, and warning signs may be removed, when sufficient aeration has occurred to reduce formaldehyde vapor level to below 0.75 ppm as determined by a Dräger Multi Gas Detector and a 0.5 - 10 PPM formaldehyde tube (or equivalent system) in accordance with manufacturer's instructions.

FOR USE IN FUMIGATION OF POULTRY CONFINEMENT BUILDINGS: Vineland Formaldehyde Solution can only be applied to unoccupied poultry confinement buildings by either the spray sited method or the fixed sprinkler method. No workers are permitted in the treated building during treatment. All application activities must be carried out from outside the confinement building.

Remove all poultry and feed from the building to ensure adequate surface coverage. Remove all portable equipment. Remove all litter and manure from floors and other surfaces. Empty all water troughs and feed racks. Clean rinse all surfaces with water. Sanitize with a suitable and approved sanitizing solution.

Post warning signs on confinement buildings prior to the start of fumigation. Post signs in plainly visible locations on or in the immediate vicinity of all entrances. Do not remove the signs until fumigation, ventilation, and final testing have been completed, and the building is safe for reentering. Warning signs shall be printed in red on white background and shall contain, in English and Spanish, the following statement in letters not less than two inches in height: "DANGER-FUMIGATION". They shall also depict a skull and crossbones not less than one inch in height and shall state in letters not less than one half inch in height "FORMALDEHYDE", date and time the fumigant was introduced, and name, address and telephone number of the applicator performing the fumigation.

Two trained personnel must be present during introduction of formaldehyde and after 24 hour treatment period, if entry is necessary into the treated confinement building for purposes of facilitating aeration.

Mixing/Loading Instructions for sited and sprinkler application. Calculate the volume of the building to be treated. Use 20 FL OZ (590 ml.) Vineland Formaldehyde Solution for each 1000 CU FT building volume. (Dilution: see specific dilution recommendations under application methods below.) Transfer through a closed system the appropriate amount of Vineland Formaldehyde Solution to the mixing tank containing the appropriate amount of water. This product should be diluted with sufficient water to thoroughly wet all surfaces during application.

Spray Sited Application Method. Apply using a portable spray sited (such as patent pending method developed by Advanced Pest Control, Lemore, CA) Spray sited shall be of a design that allows it to spray the formaldehyde solution in a rearward direction providing uniform coverage of sides, ceiling and floor as the hose is recoiled and spray sited is pulled through the poultry house. Dilution: Dilute Vineland Formaldehyde Solution with sufficient water to provide uniform coverage (recommended dilution rate - 1 part formaldehyde to 4 parts water).

Position vehicle carrying application pump delivery system approximately 20 feet from access to poultry house. Position spray sited equipment and feeder hose in poultry confinement building at furthest distance from vehicle mounted pump delivery system. Spray formaldehyde solution in a rearward direction towards sides, ceiling and floor as spray sited is pulled through poultry house. Keep entrance door closed to width of sited or approximately 30 inches. Follow application solution with sufficient clean water to flush sited system. Pull sited out of poultry house. Close and secure entrance door. Follow treatment period and aeration procedure below.

Sprinkler Application Method. Install sprinkler system in poultry confinement building. Use plastic rain-bird impact sprinklers on six inch stands, space 20-30 ft apart using flexible ½ inch PVC irrigation hose. Some buildings will require two systems, one at each end covering one half of building. Connect end of the sprinkler system to the truck or trailer mounted mix and pumping system or adapted agricultural spray rig. Close and secure the doors. Fumigate with Formaldehyde Solution by mixing 1 part Vineland Formaldehyde Solution with 10 parts water (a 1:11 dilution) (applying approximately 20 ounces of the Formaldehyde Concentrate per 1000 CU FT of space). All application activities must be carried out from outside confinement building. Application sprinklers should be used following application solution with clean water, disconnected from pumping system, and left in confinement house until reentry is acceptable. Treated building should be left closed, locked and secured for a minimum of 24 hours, then, ventilated for sufficient time so that airborne levels of formaldehyde are less than 0.75 ppm as determined by Dräger Multi Gas Detector and a 0.5 - 10 PPM formaldehyde tube (or equivalent system) in accordance with manufacturer's instructions.

Treatment Period and Aeration of Treated Poultry Confinement Buildings. Treated buildings must be left closed, locked, and secured against unauthorized entry for a minimum of 24 hours. Note: For effectiveness the relative humidity should be at least 70% and the temperature at least 70°F (21°C) or higher. Buildings are to be treated no more than 4 times per year. Removal of gas phase formaldehyde is a function of the number of building volumes (air exchanges) of air exhausted. If mechanical ventilation equipment is used, ventilate for a minimum of 20 air exchanges and 12 hours. If no mechanical ventilation equipment is used, ventilate for a minimum of 24 hours.

FOR DISINFECTING AND FUMIGATING ROOMS, RAILWAY CARS: For each 1,000 CU FT of space to be fumigated, use 154 OZ Potassium Permanganate and 20 OZ Formaldehyde Solution. Place on floor, a large dishpan in which a smaller pan is set. Put Potassium Permanganate into smaller pan and pour Formaldehyde Solution over it. Leave room unoccupied for 24 hours. Lightly for about five hours, then ventilate.

Reentry After Aeration. Do not allow access into a treated area by any person unless the formaldehyde vapor level has been determined to be below 0.75 ppm. Warning signs may be removed only after the vapor level drops below 0.75 ppm as determined by a direct reading device, such as a Dräger Detector Tube, or equivalent, in accordance with the manufacturer's instructions.

Lot No. _____



FORMALDEHYDE SOLUTION

FOR USE IN HATCHERIES AS A FUMIGANT. FOR USE IN POULTRY HOUSES. FOR USE IN DISINFECTING AND FUMIGATING ROOMS AND RAILROAD CARS.

Active Ingredient: Formaldehyde.....	37.0%
Inert Ingredients.....	63.0%
(Contains Methanol)	
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

☠ DANGER POISON ☠

See Side Panel for Additional Precautions

POTENTIAL CANCER HAZARD based on animal data and limited epidemiological evidence. May cause allergic skin reaction, reproductive disorders, lung damage, liver damage, kidney damage, brain and nervous system damage.

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove to fresh air. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before re-use. Discard contaminated leather clothing.

IF SWALLOWED: Drink large quantities of water. Avoid alcohol. Call a physician immediately.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Est. No. 6035-NJ-2

EPA Reg. No. 6035-47

ACCEPTED

JUN 13 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 6035-47

52 GALLONS (196.8 Liters)

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**PRECAUTIONARY STATEMENTS
DANGER**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye damage and skin irritation. Methanol may cause blindness. Harmful or fatal if swallowed. Do NOT get in eyes, on skin or on clothing. Avoid contamination of food. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Vapors harmful. Avoid breathing spray, mist or vapors. Wear a NIOSH/MSHA respirator approved for formaldehyde exposure, chemical resistant boots or shoe covers, chemical resistant gloves and goggles (if a full face respirator is not used) when handling.

Formaldehyde is a primary skin sensitizing agent which may cause allergic contact dermatitis. Inhalation studies in test animals have produced an excess of tumors. Users should consider the possibility that overexposure to the active ingredient may pose a cancer risk. Formaldehyde is considered an occupational carcinogen by OSHA and users should be aware of the occupational exposure standard PEL (Permissible Exposure Limit) of 0.75 ppm.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do NOT discharge effluent containing this active ingredient 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 the discharge. Do NOT discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flames.

IN CASE OF FIRE: Use CO₂ or dry chemical for small fires, alcohol type aqueous film forming foam or water spray for large fires. Use water spray to cool fire exposed containers. Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist.

IN CASE OF SPILL: Clean up immediately. Place leaking containers in well-ventilated area. Eliminate ignition sources. To clean up spills, flush area sparingly with water or use absorbent. Avoid run-off to storm sewers and ditches leading to natural waterways. Neutralize with ammonium hydroxide or sodium hydroxide.

Do not allow access to treated areas by any person unless provided with a respirator approved by NIOSH/MSHA for formaldehyde exposure unless the formaldehyde vapor level has been determined to be below 0.75 PPM. Warning signs may be removed only after the vapor level drops below 0.75 PPM as determined by a Dräger Multi Gas Detector and 0.5 - 10 PPM formaldehyde tube (or equivalent system) in accordance with the manufacturer's instructions.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food or feed by storage or disposal. Should be stored apart from other combustibles, acids or oxidizing agents. Storage facilities should be non-combustible.

- *Keep lights, fire and sparks away from container
- *Keep closure up to prevent leaking.
- *Keep container closed.
- *Keep out of sun and away from heat.
- *Never use pressure to empty.
- *Always handle in upright position.
- *Make certain closure is securely closed before moving.
- *Never add other material to container.
- *Loosen closure carefully.
- *Store in a cool place.
- *Ground container before emptying.
- *Never roll a container.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or Hazard Waste representative at nearest EPA Regional Office for guidance.


CONTAINER DISPOSAL: Completely empty container, then, dispose of empty container in accordance with Federal, State or Local regulations. After this container has been emptied it may contain explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container when empty.

SPILL CLEAN UP REQUIREMENTS: Should a spill occur, contaminated soil and other clean up debris is a hazardous waste. If a reportable quantity is exceeded, report spill/leak to the National Response Center (800-424-8802). Reportable Quantity (RQ) for formaldehyde is 1000 pounds.

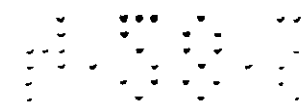
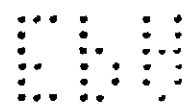
CHEMICAL EMERGENCY CALL VINELAND LABORATORIES AT 609-691-2411 OR CHEMTREC AT 1-800-424-9300

BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET

To request a Material Safety Data Sheet, please call 609 691-2411, or write Vineland Laboratories, 2285 E. Landis Ave. Vineland, NJ 08360. Vineland Laboratories, Affiliate of IGI, Inc. assumes no responsibility when this product is not used in accordance with the instructions contained on this label.

 **VINELAND LABORATORIES**
Affiliate of IGI, Inc. Vineland, NJ (USA) 08360

HEALTH 3 - FIRE 2
REACTIVITY 1 - PERSONAL PROTECTION -



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