

PM 32

8133-32

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	8133-32	MAY 22 1996
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREГИSTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		TERM OF ISSUANCE NAME OF PESTICIDE PRODUCT Formaldehyde Solution 37

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Champion Technologies, Inc.
 3355 W. Alabama
 Suite 400
 Houston, TX 77098

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. **This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:**

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Add the phrase "EPA Registration No. 8133-32" to your label before you release the product for shipment.
3. Submit one (1) copy of the final printed label before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.
4. The Confidential Statement of Formula dated June 7, 1995 is in compliance with PR Notice 91-2, it agrees with the label claim, which is the nominal concentration, and is acceptable.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL  DATE

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at 703-305-6982.

Sincerely,



Marion J. Johnson, Jr.
Product Manager (31)
Antimicrobial Program Branch
Registration Division (7505C)

Enclosure

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

30410

**FORMALDEHYDE SOLUTION 37
MICROBIOCID**

FOR USE IN HATCHERIES AS A FUMIGANT. FOR USE IN POULTRY CONFINEMENT BUILDINGS, MUSHROOM HOUSES, CITRUS FACILITIES, AND FOR USE IN DISINFECTING AND FUMIGATING ROOMS AND RAILROAD CARS.

Active Ingredient:	
Formaldehyde	37.0%
Inert Ingredients	63.0%
TOTAL	100.0%

(Contains Methanol)

KEEP OUT OF REACH OF CHILDREN

2 skull & x-bones located on either side of Danger

DANGER Danger & Poison in RED

POISON

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.

SEE LEFT SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Net Weight (lbs)	495
Net contents (U.S. gals.)	55

Champion Technologies, Inc.
3355 W. Alabama Suite 400
Houston, Texas 77098

EPA EST. No.	08785-CA-001
	08785-NC-001
	08785-AL-001

EPA REG. No. 8133-
with COMMENTS
in EPA Letter Dated:

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MAY 22 1996

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

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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 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 exists.

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 an OSHA approved method used in accordance with the manufacturer's instructions.

MONITORING OF PERSONNEL - In accordance with **FORMALDEHYDE** regulation 29 CFR Section 1910.1048, all personnel who transport, pour, apply and clean-up **FORMALDEHYDE** must monitor **FORMALDEHYDE** in order to insure workplace safety. The **FORMALDEHYDE** vapor level must be measured to be below 0.75 ppm, using a PEL (8 hour) monitor that meets the NIOSH method 3500, following the manufacturers instructions. All personnel that transport, pour, apply and clean up **FORMALDEHYDE** must monitor peak exposure to **FORMALDEHYDE** at below 2.0 ppm with a STEL (15 minute) monitor that meets the NIOSH method 3500, in accordance with the manufacturers directions. PEL monitors are to be worn throughout the workshift. STEL monitors are to be worn for 15 minutes during the time of potential peak exposure.

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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, trained personnel must be present during introduction of the **FORMALDEHYDE SOLUTION 37**.

FOR DISINFECTING AND FUMIGATING ROOMS, RAILWAY CARS: For each 1,000 cubic feet of space to be fumigated, use 16 2/3 oz. Potassium Permanganate and 20 oz. **FORMALDEHYDE SOLUTION 37**. Place on floor, a large dishpan in which a smaller pan is set. Put Potassium Permanganate into smaller pan and pour **FORMALDEHYDE SOLUTION 37** over it. Leave room immediately, closing tightly for about five hours, then, ventilate. Room may be reentered when level of formaldehyde is below 0.75 ppm as determined by an OSHA approved method used in accordance with manufacturer's instructions.

FOR FUMIGATION OF HATCHING EGGS: Incubators may be fumigated using a maximum of 1 fl. oz. of **FORMALDEHYDE SOLUTION 37** for each 30 cu. ft. of space. Manufacturer's information should be consulted for the area of a particular incubator. Dilute 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/hatchers must be vented directly to outside air. Room housing the incubator/hatcher should also have adequate ventilation. Warning signs must be placed on incubator/hatcher 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, amount of **FORMALDEHYDE SOLUTION 37** normally used must be reduced by 50% (1/2 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 an OSHA approved method used in accordance with manufacturer's instructions.

FOR USE IN FUMIGATION OF POULTRY CONFINEMENT BUILDINGS: **FORMALDEHYDE SOLUTION 37** can only be applied to unoccupied poultry confinement buildings by either spray sled method or fixed sprinkler method. No workers are permitted in treated building during treatment. All application methods must be carried out and controlled from outside the area being fumigated.

For Poultry Confinement Buildings:
Remove all poultry and feed from premises to assure adequate surface coverage. Remove all portable equipment. Clean all appropriate surfaces. Empty all water troughs and feed racks. Clean rinse all surfaces with water. Sanitize with a suitable and approved sanitizing solution.

Posting:
Post warning signs on confinement buildings prior to start of fumigation. Post signs in plainly visible locations on or in immediate vicinity of all entrances. Do not remove signs until fumigation, ventilation and final testing has been completed, and 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

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DIRECTIONS FOR USE (continued)

letters not less than one-half inch in height "FORMALDEHYDE", date and time fumigant was introduced, and name, address and telephone number of the applicator performing the fumigation.

Trained personnel must be present during the introduction of formaldehyde and, after 24 - hour treatment period, if entry is necessary into treated confinement building for purposes of facilitating aeration. Establish prohibited entry zones extending at least 25 feet from building wherever aeration of fumigant is accomplished by opening doors or windows in areas where workers may be present. Identify prohibited - entry zones with cones and yellow cautionary tape, staked 3 to 4 feet off the ground, using posting signs as described above.

Mixing/Loading Instructions for remote house application methods.

Calculate volume of building to be treated. Use 20-60 fluid ounces (590 -1770 mL) FORMALDEHYDE SOLUTION 37 for each 1000 cubic feet of building volume. [Dilution: See specific dilution recommendations under application methods below]. Transfer through a closed system appropriate amount of FORMALDEHYDE SOLUTION 37 to the mixing tank containing appropriate amount of water. This product should be diluted with sufficient water to thoroughly wet all surfaces during application.

Sprinkler Application Method: Install sprinkler system in poultry confinement building. Use plastic rain-bird impact sprinklers on six inch stands, spaced 20-30 feet apart using flexible 1/2 inch PVC irrigation hose. Some buildings may 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 door(s). Fumigate with FORMALDEHYDE SOLUTION 37 by mixing 1 part FORMALDEHYDE SOLUTION 37 with 10 parts water (a 1:11 dilution)(applying approximately 20 ounces of FORMALDEHYDE SOLUTION 37 per 1000 cubic feet of space). All application activities must be carried out from outside confinement building. Application sprinklers should be rinsed following application solution with clean water, disconnected from pumping system, and left in confinement house until reentry is acceptable. Treated buildings 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 an OSHA approved method used in accordance with manufacturer's instructions.

Spray Sled Application Method: Apply using a portable spray sled (such as patent pending method developed Advance Pest Control, Lemoore, CA). Spray sled shall be of a design that allows it to spray formaldehyde solution in a rearward direction providing uniform coverage of sides, ceiling and floor as hose is recoiled and spray sled is pulled through poultry house. Dilution: Dilute FORMALDEHYDE SOLUTION 37 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 sled 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 hose is recoiled and spray sled is pulled through poultry house. Keep entrance door closed to width of sled or approximately 30 inches. Follow application solution with sufficient clean water to flush sled system. Pull sled out of poultry house. Close and secure entrance door. Follow treatment period and aeration procedure below.

Treatment 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, relative humidity should be at least 70% and temperature at least 70F (21C) or higher. Following treatment, rooms are opened to outside fresh air for thorough venting while using appropriate personnel protective equipment. 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.

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in EPA Letter Dated:

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Under the Federal Insecticide,
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as amended, for the pesticide
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8133-32

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DIRECTIONS FOR USE (continued)

Reentry After Aeration: Do not allow access into aerator treated areas by any person unless formaldehyde vapor level has been determined to be below 0.75 ppm. Warning signs may be removed only after vapor level drops below 0.75 ppm as determined by direct reading device, approved by OSHA and used in accordance with manufacturer's instructions.

FOR USE IN DISINFECTION OF MUSHROOM HOUSES, TOOLS AND EQUIPMENT: This product may be used in the disinfection of mushroom houses, tools and equipment.

FORMALDEHYDE SOLUTION 37 can only be applied to unoccupied mushroom houses by the method following on this label. No workers are permitted in treated building during treatment. All application methods must be carried out from outside the mushroom house.

Remove all mushrooms, soil and debris from premises to assure adequate coverage. Remove all portable equipment. Clean and sanitize with suitable solutions as needed. Rinse all surfaces with water.

Post warning signs on confinement buildings prior to start of fumigation. Post signs in plainly visible locations on or in immediate vicinity of all entrances. Do not remove signs until fumigation, ventilation and final testing has been completed, and 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 fumigant was introduced, and name, address and telephone number of the applicator performing the fumigation.

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

PROCEDURE: WEAR FULL PROTECTIVE CLOTHING AND FULL FACE RESPIRATOR WHEN USING FORMALDEHYDE.

APPLICATION: 1. Tools and Equipment: Wash thoroughly with water to remove debris; then, dip with a solution made by mixing 1 gallon of **FORMALDEHYDE SOLUTION 37** with tap water to make 100 gallons [a 0.37% solution of formaldehyde]. Rinse with water to remove all traces of formaldehyde.

2.- Non producing areas - corridors, packing sheds, empty growing sheds, etc.
A. Empty mushroom house of all growing media. Sweep out thoroughly. B. Wet out growing boards. C. Close up house, sealing as appropriate, to avoid formaldehyde fume seepage. D. Inject steam into house until interior temperature reads 140 to 150 F [about 12 hours of steam injection required]. E. Inject **FORMALDEHYDE SOLUTION 37** into steam [4 gallons in small houses of up to 37 ft by 48 ft by 15 ft high]; [5 gallons in regular dimension houses of 37 ft by 60 ft by 15 ft high]; [8 gallons in large houses 37 ft by 80 ft by 15 ft high]. F. Continue steaming for 12 hours. G. Turn on exhaust fans for 4 hours and, then, open doors for 24 hours before permitting reentry into house. Prior to reentry, check house for formaldehyde fumes at outside of exhaust fans and at entrances.

Treatment and Aeration of Treated Mushroom Houses: Treated buildings must be left closed, locked and secured against authorized entry for a minimum forced ventilation period of 4 hours. Removal of gas phase 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.

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DIRECTIONS FOR USE (continued)

Reentry After Aeration: Do not allow access into aerator treated areas by any person unless formaldehyde vapor level has been determined to be below 0.75 ppm. Warning signs may be removed only after vapor level drops below 0.75 ppm as determined by direct reading device, approved by OSHA and used in accordance with manufacturer's instructions.

FOR USE IN CITRUS PACKING HOUSES: For use in citrus packing houses including storage, degreening and pre-cooling rooms to inhibit blue mold, green mold, sour rot, dosage should be 16 fluid ozs. of **FORMALDEHYDE SOLUTION 37** per thousand cubic feet of space to be treated. Application to be made as a fogging spray using a stationary, mounted spray manifold and suitable air operated foggers. Units are to be controlled from outside area being fumigated. Where necessary more than one manifold or fogger may be used per room. Frequency of application is to be limited to twice per year for each packing house. No workers are permitted in treated building during treatment. **Formaldehyde is phytotoxic to citrus. Remove all fruit from space to be treated. Allow formaldehyde residue to dissipate from storage boxes before filling with fruit.**

Application Method: Room should be tightly closed and humidity introduced for at least 24 hours or longer to bring up humidity in empty boxes, walls and floors of room. Doors and windows that do not fit tightly should be sealed securely with tape to eliminate any significant escape of fumigant. Tape all suspected sources of leaks from outside the packing house. Do not wet down with hose. Air scrubbers should be drained and water pumps turned off. Place spray manifold in an elevated position, several feet off floor and close to a return for recirculating fan. A compressed air connection should be hooked up to spray manifold and recirculating fans turned on. Air should be on 100% recirculation with no outside air intake. All persons should leave room(s) and all doors, openings shut tightly. Compressed air to spray manifold should be turned on from a position outside area (room) to be treated. Turn fans off two (2) hours after fogging is completed. Room should remain closed for a minimum of twenty-four (24) hours. Room may then be opened to outside fresh air for thorough venting for a minimum of twenty-four (24) hours or longer until testing has shown formaldehyde has dissipated to less than 0.75 ppm. Empty field bins and degreening boxes can remain in rooms to be treated. Tools, equipment, and articles which may come in contact with citrus must be removed prior to treatment or thoroughly washed with an effective cleaning compound followed by a potable water rinse before reuse.

Spray Manifold Application Method: Dilution: **FORMALDEHYDE SOLUTION 37** must be used undiluted or diluted with sufficient water to provide uniform coverage, dependent on the size or air recirculating capabilities of the area being treated, up to a dilution rate of 1 part **FORMALDEHYDE SOLUTION 37** to 10 parts water.

Fumigation is accomplished by using one or more spray manifold units, each having two to four nozzles mounted onto the top of carboy-type containers. (Five-gallon capacity recommended.) These nozzles must be designed to give adequate dispersal at an air pressure of 50 to 100 p.s.i.. The nozzles are further specified as 1/4 J set-up #5 (180 air capacity, 100-150 fluid capacity) air orifice 100-150 (Spraying Systems, Inc. Wheaton, IL) or equivalent. Spray manifolds (plumbed with 1/4 inch brass fittings) are fitted through a carboy-type container cap with drilled holes for spray manifold with siphon tube and Dry-Cam Dry Disconnect DC-100A dry-break disconnect attachment (S & R Specialties, Cocoran, CA) or equivalent, sealed tightly for use. All containers of formaldehyde, including carboy-type containers must be plainly labeled with the name of the active ingredient, **FORMALDEHYDE**.

All mixing and loading procedures must be performed using closed systems. Fill carboy-type container with water to level that will result in the proper dilution of **FORMALDEHYDE SOLUTION 37 (for applications where dilution is desirable)**. Tightly close the modified top of the carboy-type container, fitted with the spray manifold unit as described above, onto the container. Transfer the appropriate amount of **FORMALDEHYDE SOLUTION 37** into a Chemsure III closed system liquid measurement device (Cherlor Mfg. Co., Inc., Salinas, CA), or equivalent, using a Pacer-Pump self-priming HP Pump (Pacer Pumps, Leola, PA), or equivalent hand pump. Use the same pump to transfer the measured quantity through the dry-break disconnect attachment into the closed carboy-type container

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DIRECTIONS FOR USE (continued)

fitted with the spray manifold. The dry-break disconnect attachment at the carboy-type container should allow the filled bottle to be moved to the fumigation site while avoiding loss of fluids.

Place container with spray manifold in an elevated position, several feet off the floor and, where possible close to a return for the recirculating fan. Where necessary more than one manifold or fogger may be used per room. A compressed air connection should be hooked up to the spray manifold and the recirculating fans turned on. Air should be on 100% recirculation with no outside air intake. All persons must leave room(s) and all doors, openings shut tightly, (securely taping doors that have visible gaps). Compressed air to the spray manifold must be turned on from a position outside the area (room) to be treated. Adequate air pressure is necessary to obtain proper dispersion of the formaldehyde. Each spray manifold must use about 40 cubic feet of free air per minute at 80 to 100 p.s.i.. Without reentering rooms being fumigated, turn recirculating fans off two (2) hours after fogging is completed. Room must remain closed for a minimum of twenty-four (24) hours. Note: Fogging mechanism must be checked with water in the carboy (reservoir) prior to use. After testing, dump water and replace with **FORMALDEHYDE SOLUTION 37** as directed. A closed, dispensing and mixing system is required. Adequate air pressure is required to obtain proper dispersion of the formaldehyde.

Note: Fogging mechanism should be checked with water in carboy prior to use. After testing, dump water and replace with diluted **FORMALDEHYDE SOLUTION 37**. A closed dispensing system is recommended. Adequate air pressure is required to obtain proper dispersion of formaldehyde. Each fogger manifold uses about 40 cubic feet of free air per minute at 80 to 100 p.s.i.

Posting:

Post warning signs on confinement buildings prior to start of fumigation. Post signs in plainly visible locations on or in immediate vicinity of all entrances. Do not remove signs until fumigation, ventilation and final testing has been completed, and 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 fumigant was introduced, and name, address and telephone number of the applicator performing the fumigation.

Buffer Zones: Establish a worker buffer zone of 25 feet and a residential buffer zone extending from and surrounding the treated building during treatment and aeration. Determine the residential buffer zone based on the volume (cubic feet) of the structure being fumigated using a range of less than 100,000 cu. ft. requiring a buffer zone of 150 ft. to a zone of 1100 ft for buildings of 1,000,000 cu. ft. Buffer zone tables are available from the distributor. If aeration is conducted with mechanical exhaust ventilation, maintain buffer zones for 12 hours and until 20 air exchanges of air have been exhausted. If enclosure is aerated by passive means, maintain buffer zones for 24 hours. Access to the area within the worker buffer zone is acceptable for applicators or other employees with respiratory protection. Access to the larger area within the residential buffer zone and outside the worker zone is acceptable for other employees and others that are not residing within the residential buffer zone. Keep all others from entering these zones while in place.

Treatment and Aeration of Citrus Facilities: Treated buildings must be left closed, locked and secured against unauthorized entry for a minimum of 24 hours. Following treatment, rooms are opened to outside fresh air for thorough venting while using appropriate personnel protective equipment. 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.

ACCEPTED
with COMMENTS
in ERA Letter Dated:

MAY 22 1996

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

8133-32

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DIRECTIONS FOR USE (continued)

Reentry After Aeration: Do not allow access into aerator treated areas by any person unless formaldehyde vapor level has been determined to be below 0.75 ppm. Warning signs may be removed only after vapor level drops below 0.75 ppm as determined by direct reading device, approved by OSHA and used in accordance with manufacturer's instructions.

Note: For effectiveness, relative humidity should be at least 70% and temperature at least 70°F (21°C) or higher.

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.
- Never add other material to container.
- Make certain closure is securely closed before moving.
- 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 instructions, contact your State Pesticide or Environmental Control Agency, or Hazard Waste representative at nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty drum, then, dispose of empty drum 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 100 pounds.

PHYSICAL PROPERTIES

Table with 4 columns: Property, Value 1, Value 2, Value 3. Rows include Specific Gravity (1.08), Pounds per Gallon (9.00), Vapor Pressure (40 mm Hg), Solubility in Water @ 20°C (Complete), Flash Point (>130°F), and pH (3.5-4.5).

CHEMICAL EMERGENCY CALL CHAMPION TECHNOLOGIES, INC. AT 713-431-2561 OR CHEMTREC AT 1-800-424-9300 BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET

To request a Material Safety Data Sheet, please call (713) 431-2561, or write Champion Technologies, Inc. P.O. Box 450499, Houston, TX 77245-0499

Champion Technologies, Inc. assumes no responsibility when this product is not used in accordance with the instructions contained on this label.

HEALTH 3 FIRE 2 REACTIVITY 1 PERSONAL PROTECTION

ACCEPTED with COMMENTS in EPA Letter Dated:

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 8133-32