

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 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 areas sparingly with water or use absorbent. Avoid run-off to storm sewers and ditches leading up 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 manufacturer's 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 manufacturer's 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.

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 HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. After this container has been emptied, it may contain explosive vapors. Keep away from heat, sparks, and flames. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations. Then offer for recycling if available and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. 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.

ALDESAN MICROBIOCIDE

FOR USE IN POULTRY AND SWINE CONFINEMENT BUILDINGS. FOR USE IN DISINFECTING AND FUMIGATING ROOMS AND RAILROAD CARS.

ACTIVE INGREDIENT:

Formaldehyde	37.0%
OTHER INGREDIENTS:	63.0%
TOTAL	100.0%

(Contains Methanol)

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO POISON



Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted a detalle (If you do not understand the label, find someone to explain it to you in detail.)

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.

FIRST AID

IF INHALED: Move person to fresh air. If 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 IN EYES: Hold eye open. Rinse slowly 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 ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage

SEE LEFT SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

Net Weight (Lbs): 480

Net Contents (U.S. Gallons): 53.3

EPA Registration No.: 71021-2-66171

EPA Establishment No.: 08743-OK-001

CHEMICAL EMERGENCY CALL
PRESERVE INTERNATIONAL AT (209) 664-1607
OR CHEM-TEL AT 1-800-255-3924

BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET

To request a Material Safety Data Sheet, please call 1-800-995-1607 or write P.O. Box 3135, Turlock, CA 95381. Preserve International 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	-

Manufactured for:



PRESERVE

INTERNATIONAL

PO Box 17003, Reno, NV 89511

USA Telephone (800) 995-1607

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 **ALDESAN MICROBIOCID**.

FOR FUMIGATION OF HATCHING EGGS: Incubators may be fumigated using a maximum of 1 fl. oz. of **ALDESAN MICROBIOCID** for each 30 cu. ft. of space. Manufacturers 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 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 **ALDESAN MICROBIOCID** 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 AND SWINE CONFINEMENT BUILDINGS: **ALDESAN MICROBIOCID** can only be applied to unoccupied poultry or swine 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 from outside the building.

FOR POULTRY AND SWINE CONFINEMENT BUILDINGS: Remove all poultry or swine 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 re-entering. 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. 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 sled and sprinkler application. Calculate volume of building to be treated. Use 20-60 fluid ounces (590-1770 ml.) **ALDESAN MICROBIOCID** 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 **ALDESAN MICROBIOCID** 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 or swine 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 **ALDESAN MICROBIOCID** by mixing 1 part **ALDESAN MICROBIOCID** with 10 parts water (a 1:11 dilution). 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 re-entry 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 by Advanced 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 **ALDESAN MICROBIOCID** 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 or swine 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 or swine building. Close and secure entrance door. Follow treatment period an aeration procedure below.

Treatment and Aeration of Treated Poultry or Swine Confinement Buildings: Treated buildings must be left closed, locked and secured against authorized entry for a minimum of 24 hours.

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

Re-entry After Aeration: Do not allow access into aerator treated areas by any persons 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 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. **ALDESAN MICROBIOCID**. Place on floor, a large dishpan in which a smaller pan is set. Put Potassium Permanganate into smaller pan and pour **ALDESAN MICROBIOCID** over it. Leave room immediately, closing tightly for about five hours, then, ventilate. Room may be re-entered when level of formaldehyde is below 0.75 ppm as determined by an OSHA approved method used in accordance with manufacturer's instructions.

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 hour 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 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.

AGRICULTURAL WORKER SAFETY USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal, protective equipment, restricted-entry intervals, and notification to workers. These requirements only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Entry-Restrictions: Follow the applicable entry restrictions listed elsewhere on the product labeling. **Notification Instructions:** Follow the rules in the WPS for notifying workers of the application. **Exception:** If there are instructions listed elsewhere on the product labeling that requires the posting of specific signs at treated areas, you must notify workers of the application by warning them orally **AND** by posting the signs specified on the labeling.

Personal Protective Equipment (PPE) Requirements:

Handler PPE: Applicators and other handlers must wear:

- Air purifying full-face respirator with formaldehyde cartridges if in area being treated
- Coveralls over long-sleeved shirt & long pants
- Chemical-resistant footwear plus socks
- Protective eyewear and chemical-resistant headgear for overhead exposure
- Chemical-resistant gloves such as barrier laminate or viton

Chemical-resistant apron when cleaning equipment, mixing, or loading

Early Entry PPE: PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with any thing that has been treated, such as plants, soil, or water is:

- Air purifying full-face respirator with formaldehyde cartridges
- Coveralls over long-sleeved shirt & long pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear and chemical-resistant headgear for overhead exposure

Conflicting Instructions: If the requirements of the WPS conflict with instructions listed elsewhere on this product label, users must obey the more protective requirements.

DOT SHIPPING NAME

**Formaldehyde Solutions,
8, UN 2209, III, RQ**

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.

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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 areas sparingly with water or use absorbent. Avoid run-off to storm sewers and ditches leading up to natural waterways. Neutralize with ammonium hydroxide or sodium hydroxide.

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STORAGE AND DISPOSAL

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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 HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. After this container has been emptied, it may contain explosive vapors. Keep away from heat, sparks, and flames. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations. Then offer for recycling if available and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut, puncture, or weld on or near this container when empty.

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ALDESAN MICROBIOCIDICIDE

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BUILDINGS. FOR USE IN DISINFECTING AND
FUMIGATING ROOMS AND RAILROAD CARS.

ACTIVE INGREDIENT:

Formaldehyde..... 37.0%

OTHER INGREDIENTS:..... 63.0%

TOTAL 100.0%

(Contains Methanol)

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

POISON



Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted a detalle (If you do not understand the label, find someone to explain it to you in detail.)

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.

FIRST AID

IF INHALED: Move person to fresh air. If 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 IN EYES: Hold eye open. Rinse slowly 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 ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage

SEE LEFT SIDE PANEL FOR ADDITIONAL

PRECAUTIONARY STATEMENTS

Net Weight (Lbs): 480

Net Contents (U.S. Gallons): 53.3

EPA Registration No.: 71021-2-66171

EPA Establishment No.: 08743-OK-001

CHEMICAL EMERGENCY CALL
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HEALTH 3
FIRE 2
REACTIVITY 1
PERSONAL PROTECTION -

Manufactured for:



PRESERVE

INTERNATIONAL

PO Box 17003, Reno, NV 89511

USA Telephone (800) 995-1607

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 **ALDESAN MICROBIOCIDICIDE**.

FOR FUMIGATION OF HATCHING EGGS: Incubators may be fumigated using a maximum of 1 fl. oz. of **ALDESAN MICROBIOCIDICIDE** for each 30 cu. ft. of space. Manufacturers 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 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 **ALDESAN MICROBIOCIDICIDE** 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 AND SWINE CONFINEMENT BUILDINGS: **ALDESAN MICROBIOCIDICIDE** can only be applied to unoccupied poultry or swine 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 from outside the building.

FOR POULTRY AND SWINE CONFINEMENT BUILDINGS: Remove all poultry or swine 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 re-entering. 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. 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 sled and sprinkler application. Calculate volume of building to be treated. Use 20-60 fluid ounces (590-1770 ml.) **ALDESAN MICROBIOCIDICIDE** 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 **ALDESAN MICROBIOCIDICIDE** 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 or swine 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 **ALDESAN MICROBIOCIDICIDE** by mixing 1 part **ALDESAN MICROBIOCIDICIDE** with 10 parts water (a 1:11 dilution). 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 re-entry 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 by Advanced 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 **ALDESAN MICROBIOCIDICIDE** 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 or swine 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 or swine building. Close and secure entrance door. Follow treatment period an aeration procedure below.

Treatment and Aeration of Treated Poultry or Swine Confinement Buildings: Treated buildings must be left closed, locked and secured against authorized entry for a minimum of 24 hours.

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

Re-entry After Aeration: Do not allow access into aerator treated areas by any persons 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 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. **ALDESAN MICROBIOCIDICIDE**. Place on floor, a large dishpan in which a smaller pan is set. Put Potassium Permanganate into smaller pan and pour **ALDESAN MICROBIOCIDICIDE** over it. Leave room immediately, closing tightly for about five hours, then, ventilate. Room may be re-entered when level of formaldehyde is below 0.75 ppm as determined by an OSHA approved method used in accordance with manufacturer's instructions.

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 hour 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 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.

AGRICULTURAL WORKER SAFETY USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal, protective equipment, restricted-entry intervals, and notification to workers. These requirements only apply to uses of this product that are covered by the Worker Protection Standard (WPS). Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Entry-Restrictions: Follow the applicable entry restrictions listed elsewhere on the product labeling. Notification Instructions: Follow the rules in the WPS for notifying workers of the application. Exception: If there are instructions listed elsewhere on the product labeling that requires the posting of specific signs at treated areas, you must notify workers of the application by warning them orally **AND** by posting the signs specified on the labeling.

Personal Protective Equipment (PPE) Requirements:

Handler PPE: Applicators and other handlers must wear:

Air purifying full-face respirator with formaldehyde cartridges if in area being treated

Coveralls over long-sleeved shirt & long pants

Chemical-resistant footwear plus socks

Protective eyewear and chemical-resistant headgear for overhead exposure

Chemical-resistant gloves such as barrier laminate or viton

Chemical-resistant apron when cleaning equipment, mixing, or loading

Early Entry PPE: PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with any thing that has been treated, such as plants, soil, or water is:

Air purifying full-face respirator with formaldehyde cartridges

Coveralls over long-sleeved shirt & long pants

Chemical-resistant gloves such as barrier laminate or viton

Chemical-resistant footwear plus socks

Protective eyewear and chemical-resistant headgear for overhead exposure

Conflicting Instructions: If the requirements of the WPS conflict with instructions listed elsewhere on this product label, users must obey the more protective requirements.

DOT SHIPPING NAME

Formaldehyde Solutions,
8, UN 2209, III, RQ