

FOR USE ON ALL CULTURED FRESHWATER, PENAEID SHRIMP, AND ALL FRESHWATER EGGS

- INDICATIONS FOR USE:**
- Parasiticide for All Freshwater: for the control of external protozoa (*Chilodonella* spp., *Ichthyophthirius* spp., *Ichthyobodo* spp., *Epiplatys* spp., *Ambloplitis* spp., and *Trichostema* spp.), and the monogeneans (*Calpodococcus* spp., *Dactylogyrus* spp., and *Gyrodactylus* spp.).
 - Parasiticide for Penaeid Shrimp: for the control of external protozoan parasites (*Bdello* spp., *Epiplatys* spp., and *Zoothamnium* spp.).
 - Fungicide for Freshwater Eggs: for the control of fungi of the family Saprolegniaceae.

DIRECTIONS FOR USE:

1. Parasiticide for All Freshwater

Aquatic Species	Concentration of Formalin	Administer in Tanks & Raceways for up to 48 hrs (µL/L)*	Administer in Earthen Ponds (Single Treatment) (µL/L)**
Salmon & Trout Above 30°F Below 30°F	Up to 170	Up to 230	15-25***
All other Freshwater	Up to 250		15-25***

- * Microliter per liter (µL/L) = parts per million (ppm).
 ** Use the lower concentration when ponds are heavily loaded with phytoplankton or fish, to avoid oxygen depletion due to the biological oxygen demand created by decay of dead phytoplankton. Alternatively, a higher concentration might be used if dissolved oxygen is strictly monitored.
 *** Although the indicated concentrations are considered safe for cold and warm water fish, a small number of each lot or pond to be treated should always be used to check for any unusual sensitivity to formalin before proceeding.

2. Parasiticide for Penaeid Shrimp

Aquatic Species	Concentration of Formalin	Administer in Tanks & Raceways for up to 4 hours (µL/L)*	Administer in Earthen Ponds (µL/L)
Penaeid Shrimp	50 to 100**		25***

- * Microliter per liter (µL/L) = parts per million (ppm).
 ** Treat for up to 4 hours daily. Treatment may be repeated daily until parasite control is achieved. Use the lower concentration when tanks or raceways are heavily loaded with phytoplankton or shrimp, to avoid oxygen depletion due to the biological oxygen demand created by decay of dead phytoplankton. Alternatively, a higher concentration might be used if dissolved oxygen is strictly monitored.
 *** Treatment may be repeated in 5 to 10 days, if needed.

3. Fungicide for All Freshwater Eggs

Aquatic Species	Concentration of Formalin	Administer in Hatchery Systems (µL/L)*
Eggs of all freshwater except <i>Acipenseriformes</i>		1000-2000 for 15 minutes**
Eggs of <i>Acipenseriformes</i>		Up to 1500 for 15 minutes**

- * Microliter per liter (µL/L) = parts per million (ppm).
 ** Apply in constant flow water supply of incubating facilities. A preliminary bioassay should be conducted on a small subsample of fish eggs to determine sensitivity before treating an entire group. This is necessary for all species because egg sensitivity can vary with species or strain and the unique conditions at each facility.

METHODS OF APPLICATION

APPLICATION TO TANKS AND RACEWAYS - Turn off water supply, provide aeration, apply appropriate amount of FORMACIDE-B, and thoroughly dilute and mix to assure equal distribution of FORMACIDE-B. Treat for up to 4 hours for penaeid shrimp, then drain the solution and refill the tank with fresh, well-aerated water. While tank is under treatment, adequate oxygen must be present to maintain the fish or shrimp. If needed, aeration should be provided to prevent oxygen depletion. Treatments may be repeated daily until parasite control is achieved.
APPLICATION TO PONDS - Apply greatly diluted FORMACIDE-B to the pond evenly using a pump, sprayer, boat, ball, or other suitable device to assure even distribution. Allow FORMACIDE-B to dissipate naturally. Single treatments usually control most parasites, but may be repeated in 5 to 10 days if needed. Treatments for ichthyophthirius should be made at 2-day intervals until control is achieved.
APPLICATION TO EGG INCUBATORS - Apply FORMACIDE-B into a constant water supply flowing around the eggs. A drip or pressure system should be used and timed. Apply FORMACIDE-B under the surface of the water flow. Egg tanks may be treated as often as necessary to prevent growth of fungi.

WITHDRAWAL TIME

Zero days

WARNING

Striped bass have been demonstrated to be hypersensitive to formalin; lethal toxicity has been noted to occur at levels approximately 2-3 times the recommended therapeutic concentration.



USER SAFETY WARNINGS

Use Personal Protective Equipment (PPE) including eye, respiratory, and skin protection while handling this product. Refer to the SDS and OSHA regulations (29 CFR 1910.104) for guidance on the most appropriate PPE equipment. Failure to use PPE may increase the risk of acute exposure to formaldehyde. Exposure to high concentrations of formaldehyde vapor causes severe respiratory irritation which can be life-threatening. Lower vapor levels can cause irritation to the eyes, respiratory tract, and skin. Seawater formaldehyde can be life-threatening. Formaldehyde is a irritant when splashed on skin or into the eyes. It can cause severe eye damage, even blindness. KEEP OUT OF REACH OF CHILDREN.
 In laboratory animals, formaldehyde has demonstrated the potential to cause reproductive and developmental fatalities at high dose. Use only with adequate ventilation. Keep container tightly closed when not in use.
 May aggravate a pre-existing asthmatic condition and allergic rhinitis.
 Moderate fire and explosion hazard exists when exposed to heat or flame.
 Certain metals will corrode or react non-potentially. Prolonged exposure to methanol has been associated with reproduction disorders. May Cause Cancer: Formaldehyde vapor may be carcinogenic if inhaled. Use applicable safety protection.
 (NOTE: This drug, used as labeled, does not cause formaldehyde tissue residues in fish).
 Employees: Refer to Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.1046 for human safety guidance that may be applicable to your specific operation. OSHA's "action level" concentration for airborne formaldehyde is 0.5 part per million (ppm), calculated as an 8-hour time-weighted average (TWA). Use respiratory belts, and eye protection when needed (per OSHA's regulation 29 CFR 1910.1046). OSHA's airborne exposure limits (without use of a respirator) for formaldehyde shall not exceed 1) 0.75 part per million (ppm) as an 8-hour time-weighted average (TWA) or 2) 2 parts per million (ppm) as a 15-minute, short term exposure limit (STEL). NOTE: The odor of formaldehyde in the air can generally be detected at about 0.5 to 0.8 ppm (range about 0.05 to 1 ppm).

USE/EXPOSURE RESTRICTIONS AND

IRRITATION (Swallowing): Get medical aid immediately. Remove victim from exposure wearing protective clothing and respiratory protection appropriate to the type and degree of contamination. Move victim to fresh air immediately. If breathing is difficult, give oxygen. DO NOT use mouth-to-mouth respiration. If breathing has ceased, induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If no respiratory device is available, perform chest compressions only. **IRITATION (Swallowing):** DO NOT induce vomiting. If the person is conscious, dilute, treat with milk, or absorb the formaldehyde by giving milk, activated charcoal, or water. Get medical help immediately. If swallowing occurs, keep head lower than hips. **EYE CONTACT:** Immediately flush (eyelid) with large amounts of water for at least 15 minutes. Flush the lower and upper eyelids occasionally until no evidence of chemical remains. Seek medical attention immediately. DO NOT allow victims to rub eyes or keep eyes closed for burns to eyes may have a delayed effect. **SKIN CONTACT:** Remove contaminated clothing (including shoes) immediately. Wash affected areas of body with soap and large amounts of water until no evidence of chemical remains (at least 15 minutes). If there are chemical burns, or acceptable eye or respiratory irritation, get medical help immediately.

PRECAUTIONS

Store FORMACIDE-B indoors away from direct sunlight, heat, sparks, and open flames, and ventilate storage area. Do not subject FORMACIDE-B to temperatures below 40°F (4°C). FORMACIDE-B subjected to temperatures below 40°F causes the formation of paraformaldehyde, a substance which is toxic to fish. Paraformaldehyde can be recognized as a white precipitate at the bottom or on the walls of the container.
 Tolerance to FORMACIDE-B may vary with strain and species of fish, eggs and shrimp. While the indicated concentrations are considered safe for the indicated use, a small number of each lot to be treated should be used to check for any unusual sensitivity to FORMACIDE-B before proceeding.

Under some conditions, fish or penaeid shrimp may be stressed by normal treatment concentrations. Heavily parasitized or diseased fish or penaeid shrimp often have a greatly reduced tolerance to FORMACIDE-B. Such animals do not tolerate the normal tank treatment regimen the first time they are treated. Therefore, stress and damage may need to be reduced. If they show evidence of distress (leaving the bottom, at the surface), the solution should be removed and replaced with fresh, well-aerated water. Careful observations should always be made throughout the treatment period whenever tank or raceway treatments are made. Treatment should never exceed 1 hour for fish or 4 hours for penaeid shrimp (even if they show no sign of distress), nor should it exceed 15 minutes for fish eggs.
 Do not apply FORMACIDE-B to fish ponds, tanks, or raceways with water warmer than 80°F (27°C), when a heavy strain of phytoplankton is present, or when the concentration of dissolved oxygen is less than 5 mg/L (ppm). Do not apply to penaeid shrimp ponds when the concentration of the dissolved oxygen is less than 3 to 4 mg/L (ppm). FORMACIDE-B may kill phytoplankton and can cause depletion of dissolved oxygen. If an oxygen depletion occurs, add fresh, well-aerated water to dilute the solution and to provide oxygen. Because formalin may harm a biofilter, biofilters should be bypassed during treatment, and the system should be flushed and replaced with untreated water before recommencing the biofilter.
 Do not use FORMACIDE-B on a tank, pond, or raceway in which methylene blue, or other dyes which are absorbed, have been recently used.

ENVIRONMENTAL PRECAUTIONS

Do not discharge the contents of fish treatment tanks into natural streams or ponds without thorough dilution (greater than or equal to 100). Do not discharge the contents of egg treatment tanks without a 100X dilution. This will avoid damage to FORMACIDE-B sensitive phytoplankton, zooplankton, and fish populations and avoid depletion of dissolved oxygen.
 Formaldehyde is identified by the U.S. Environmental Protection Agency (EPA) as a toxic pollutant and hazardous substance and is regulated by regulation (40 CFR, Part 122) to be identified as a discharge for NPDES permits for aquatic animal production facilities, aquaculture projects and other facilities. Formaldehyde is subject to SARA Title III, Section 303 reporting.
 Use, storage, and disposal of this product must be handled in accordance with applicable local, state and Federal laws.
STORAGE
 Recommended storage temperature 59°F (15°C). DO NOT EXPOSE TO DIRECT SUNLIGHT. Store FORMACIDE-B indoors away from direct sunlight, heat, sparks, and open flames, and ventilate storage area. Do not subject FORMACIDE-B to temperatures below 40°F (4°C).

FORMACIDE-B

Formalin (Aqueous solution of formaldehyde)
 Parasiticide for all Cultured Fish, Penaeid Shrimp
 and Fungicide for all Freshwater Eggs

Guaranteed Analysis

- Formaldehyde (CH₂O) 37%
- Methanol 49-57%
- Water and inert ingredients 100%

Read Entire Package Insert Before Using This Product
 Keep Out of Reach of Children
 Net Contents: 55 (U.S.) Gallons [208.2 Liters]

Manufactured by: **B.I. Mitchell, Inc.**

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 blmitchell.pay@gmail.com

To report suspected adverse events, for technical assistance or to obtain a copy of the SDS, contact B.I. Mitchell, Inc. at (662) 332-1591 or blmitchell.pay@gmail.com.
 For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

FORMALDEHYDE SOLUTIONS 8 UN2009, III CORROSIVE LIQUID
LOT # _____
FORMALDEHYDE SOLUTIONS 8 UN2009, III CORROSIVE Approved by EPA under OSHA 1910.104
Exp. Date _____

FORMACIDE-B

formaldehyde and methanol liquid

Product Information			
Product Type	OTC ANIMAL DRUG	Item Code (Source)	NDC:67188-101
Route of Administration	TRANSDERMAL		

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
FORMALDEHYDE (UNII: 1HG84L3525) (FORMALDEHYDE - UNII:1HG84L3525)	FORMALDEHYDE	0.037 kg in 1 L	
METHYL ALCOHOL (UNII: Y4S76JW15) (METHYL ALCOHOL - UNII:Y4S76JW15)	METHYL ALCOHOL	0.014 kg in 1 L	

Inactive Ingredients			
Ingredient Name	Strength		
WATER (UNII: 059QF0KOOR)			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:67188-101-55	208.2 L in 1 DRUM		

2	NDC:67188-101-01	3.785 L in 1 JUG		
3	NDC:67188-101-05	18.95 L in 1 JUG		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANADA	ANADA200414	01/14/2014	

Labeler - B. L. Mitchell, Inc. (877242453)

Establishment

Name	Address	ID/FEI	Business Operations
B. L. Mitchell, Inc.		877242453	manufacture, api manufacture

Revised: 7/2023

B. L. Mitchell, Inc.