IPORE SOLUTION 300 MG/ML

Ingredient(s):
Each ml contains:
Povidone iodine.....300 mg (Eq to 30mg available Iodine)

Pharmacodynamics
Iodine can penetrate the cell wall of microorganisms quickly, and the lethal effects are believed to result from disruption of protein and nucleic acid structure and synthesis.

Pharmacokinetics
An iodophor compound is basically a complex of iodine with a solubilizing agent or carrier that liberates free iodine in solution. Iodine is lethal to microflora and to viruses, wwhich are killed within 15 min in a 50 ppm solution.
Povidone Iodine (PVPI) can be used to treat eggs of shrimp and fish. In addition, PVPI is not inactivated by organic matter. Even a solution as dilute as 10% PVPI wil exert adequate bactericidal action in the presence of organic matter.
PVPI has been found to be effective viruses on salmonid eggs, against bacteria on trout eggs and against fungi. Shrimp eggs and nauplii can also be disinfected by immersing them in 100 ppm PVPI for 1 min or at 400 ppm for 30 sec.
The eggs or nauplii are then immersed in a 1 ppm PVPI solutinon for 1 min before being rinsed and retumed to the incubation jar.
PVPI is being used in ponds, especially in combating viral infections. Although hard data are lacking, anecdotal feedback on its use indicates that it is efficacious.
PVPI is germicidal. 11-16% of the available iodine in an iodophor solution will be bind to bacterial cell walls with the subsequent oxidation of elemental iodine to iodite. Low iodine concentrations can rapidly klill most fish pathogens when they are suspended in distilled water. Infectious hematopoietic necrosis virus (IHNV), is reported to be inactivated by 99,9% after only a 7.5 second contact with 0,1 mg/L iodine. Nine species of bacteria and two species of fungus pathogenis to fish were effectively killed by a 5 min exposure to 25mg/L iodine.

Indication
Use in aquaculture as a fish-egg disinfectant for salmonids of the genera *Salmon* and *Onchorhynchus*. An effective sanitizer for preventing the spread *of Aeromonas salmonicida, Chondrococcus columnaris, Cytophaga psychrophila, Renibacterium slamonicida, Vibrio anguilarum, Yersinia ruckeri*, Infectious Hematopoietic Necrosis Virus, Infectious Pancreatic Necrosis Virus, Infectious Salmon Anemia Virus and Viral Hemorrhagic Septicemia Virus associated with fish-egg surfaces.

Target species
Fish egg (Salmon)

Recommended Dose
Dilute 1 ml Ipore Solution to 300ml in clean water (100 ppm available iodine). Rinse eggs with a small volume of diluted solution, which should be discarded, before circulating fresh soulution around in a 10 minutes bath. A suitable ration is 1 volume of eggs to 4 volumes of this solution. Flush eggs with clean water treatment. Do not reuse prepared bath solutions. Do not mix Ipore Solution with other chemicals. Treatment may be repeated as required up to 3 times during the eggs incubation period at intervals of 1 day or longer. It is non-toxic to green, fertilized and eyed eggs at the recommended appplication concentration.

Mode of administration
Short-term bath in diluted solution.

Contraindication
Hypersensitivity to iodine

Warning and Precautions
Egg treatment is not recommended within five days of hatching. A change in the colour of Ipore Powder's solution from dark brown to light yellow indicates loss of activity.

If product contaminates eyes, flush well with clean water. If irritation persists, contact a physician.
The 100 ppm free iodine solution may be painted on lesions, although it may burn the exposed skin of some marine fish and smooth skinned fish.

Interaction with Other Medications
Do not mix Ipore Powder's solution with other chemicals. Concomitant administration of silver sulfadiazine and chlorhexidine partial inactivation possible.

Pregnancy and Lactation
Unknown.

Side Effects
Unknown.

Environmental Property
For weak solutions, dilute with several volumes of water before discarding. For strong solutions, neutralize with sodium thiosulfate before discarding. PVPI has low toxicity to fish eggs. However, it may be toxic to fish. Therefore, thoroughly rinse all disinfected surfaces before reuse. Do not contaminate streams, rivers or waterways with the chemical or used container.

Symptoms and Treatment of Overdose
Unknown.

Storage Condition
Store at temperature below 30^{0}C. Protect from direct sunlight and water.

Shelf Life
2 years
Used within 24 hours after reconstitution.

Withdrawal Periods
Egg treatment is not recommended within five days of hatching.
Do not use for disinfection of fish eggs intended for human or animal consumption.

Maximum Residual Limit (MRL)
Not known.

Product Description
A deep brown color viscous liquid, and without foreign matter.
25L bottle.

Made by YSP
Manufacturer:
Y.S.P. INDUSTRIES VIETNAM CO., LTD
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Product Registration Holder :
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