

88951-3

4/15/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 88951-3

Date of Issuance: APR 15 2013

Term of Issuance:

Conditional

Name of Pesticide Product:

PanaX 100™ 75

NOTICE OF PESTICIDE:

[x] Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Sherri Gray
c/o for Pan Asian Chemical, Inc.
15616 Plain Dealing Place
Manassas, VA 20112

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the EPA Registration Number to read, "EPA Reg. No. 88951-3".

Signature of Approving Official:

[Handwritten signature of Marshall Swindell]

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

APR 15 2013

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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 label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerely,

Marshall Swindell  
Product Manager Team-33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Enclosure: (Stamped Label)

**PRECAUTIONARY STATEMENTS**

**HAZARD TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear long-sleeved shirt and long pants or coveralls, goggles, face-shield and chemical resistant gloves when handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if inhaled. Avoid breathing vapor or mist. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**User Safety Recommendations:** Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must wash hands before eating, drinking, chewing gum, or using the toilet. Users must remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and wildlife. Do not discharge effluent containing this product 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal  
**Container:** Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Storage:** Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. Keep container tightly closed when not in use. In case of a spill, flood the area with large quantities of water.  
**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Storage:** Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. Keep container tightly closed when not in use. In case of a spill, flood the area with large quantities of water.  
**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**PanaX 100™ 75**

**Microbiocide**

**FOR USE IN INDUSTRIAL PROCESSES ONLY.  
 NOT FOR DOMESTIC USE.**

**ACTIVE INGREDIENT:**

Triclosan (hydroxymethyl)phosphonium sulfate.....75.0%

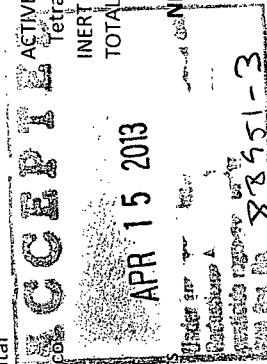
**INERT INGREDIENTS:**.....25.0%

**TOTAL:**.....100.0%

**NET CONTENTS:** Bulk, Drum or As Marked on Container

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**



**FIRST AID**

Call poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center doctor, or going for treatment.

**IF IN EYES** Immediately flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**IF ON SKIN OR CLOTHING** Get medical aid immediately. Wash affected skin with plenty of water. Remove contaminated clothing and shoes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED** If swallowed, get immediate medical attention. Only induce vomiting at the instructions of physician. Never give anything by mouth to unconscious person. Call a poison control center or physician immediately for treatment.

**IF INHALED** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately. Call a poison control center or doctor for further treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

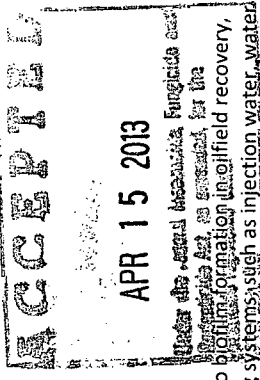
**EPA Registration Number..... 88951-G**

**EPA Establishment Number.....**

**PAN ASIAN CHEMICALS INC.  
 3040 POST OAK BLVD.# 1050  
 HOUSTON, TEXAS 77056**

**EMERGENCY CONTACT (24 HOURS PER DAY) 1-800-424-9300**

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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.

**OIL FIELD AND PETROCHEMICAL OPERATIONS**

PanaX 100™ 75 is effective in controlling sulfate reducing bacteria, general aerobic bacteria, including microorganisms that contribute to processing and distribution applications and supporting systems; such as injection water, water distribution applications and supporting systems, holding tanks, disposal well water, recirculating water handling systems, and pipelines. PanaX 100™ 75 has been shown to dissolve iron sulfide and sequester iron when used under these conditions, leading to improved filter like and well injectivity, and reduction of hydrocarbon sheen. PanaX 100™ 75 is also effective for use in controlling microbial growth in fluids used for drilling and stimulation of oil and gas wells.

**WATER FLOODS**

PanaX 100™ 75 should be added to water flood system at a point where uniform mixing will occur.

Initial Treatment: For a noticeably fouled system, add 93-350 ppm PanaX 100™ 75. When added to a flowing system, slug dose for 2-6 hours based on flow rates. Repeat as necessary until control is achieved.

Subsequent Treatment: Once control has been achieved, add 14-98 ppm PanaX 100™ 75 weekly or as needed to maintain control. When added to a flowing system, slug does for 2-6 hours based on flow rates.

Continuous Treatment: PanaX 100™ 75 can be dosed continuously at a level of 14-67 ppm.

**OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

PanaX 100™ 75 should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of product through the internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. Criteria for success of the treatment will be reduction in bacterial count and / or corrosion rates.

Slug Dosing: Follow instructions for water flood treatment.

Continuous Dosing: PanaX 100™ 75 can be dosed continuously at a level of 14-100 ppm.

**DRILLING MUDS, PACKER FLUIDS, COMPLETION AND WORKOVER FLUIDS**

PanaX 100™ 75 should be added to these fluids at a point where uniform mixing will occur. Add 33-1400 ppm of product to a freshly prepared fluid depending on severity of contamination.

**GAS STORAGE WELL AND SYSTEMS**

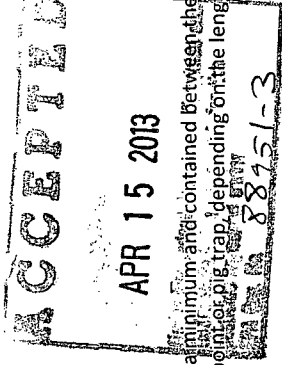
Individual injection wells should be treated with PanaX 100™ 75 at the same application rates and in the same manner as described under Water Floods. Injections should be repeated as needed to maintain control. Individual drips should be treated with a sufficient quantity of product to produce a concentration of 33.3-133.3 ppm when diluted by the water present in the drip. Injections should be repeated as needed to maintain control.

**WELL REMEDIATION OPERATIONS**

Individual production or injection wells may be bullheaded with PanaX 100™ 75 to control bacteria and simultaneously dissolve iron sulfide deposits. Pump the product into the well as a solution in water containing from 13.33 to 40% PanaX 100™ 75. The well should be shut -in for a period of time (at least 6 hours) then put back into operation.

**HYDROTESTING**

Water used to hydrate pipelines or vessels should contain 66.6-666.5 ppm PanaX 100™ 75, depending on water quality and length of time the equipment will remain idle.



#### **PIPELINE PIGGING AND SCRAPING OPERATION**

Add PanaX 100™ 75 to a slug of water immediately following the scraper (Ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient product should be added to produce a concentration of 70-700 ppm in the water at the discharge point or pig trap, depending on the length of the pipeline and the severity of biofouling.

#### **INDUSTRIAL AND COMMERCIAL RECIRCULATING COOLING WATER SYSTEMS**

Note: For cooling water systems of equal to or greater than 4000 gallons, do not apply by open pouring of liquid to cooling water systems; a metering pump delivery system is required for this use and application method.

For control of bacteria, fungi and algae:

**Initial Slug Dose:** Add 93-350 ppm of PanaX 100™ 75 based on total water volume. Repeat until control is obtained. Thereafter, add either intermittently 35-140 ppm of PanaX 100™ 75 (26-105 ppm THPS) or continuously 18.6-65.3 ppm of PanaX 100™ 75 per day. Dirty systems must be cleaned prior to treatment.

#### **INDUSTRIAL FRESH WATER SYSTEMS**

PanaX 100™ 75 is effective in controlling algae in holding ponds and in controlling bacteria and fungi in holding and processing tanks of industrial fresh water systems supplying water to pulp and paper mills, textile mills and other manufacturing plants. In pulp and paper mills, treatment of the fresh water with PanaX 100™ 75 can make an important contribution to slime control. The use of PanaX 100™ 75 as described will reduce the development in slime in fresh water pipes and other equipment, and on the pulp and paper mill machine parts contacted by fresh water. If water is used in the manufacture of paper and paperboard products that may contact food the concentration of THPS in the slurry cannot exceed 84ppm.

For the control of algae in industrial fresh water systems, PanaX 100™ 75 should be added to provide a concentration of 1.33-13.33 ppm of product. Treatment should be based on the amount of water entering the pond or reservoir or leaving the pond or reservoir and entering the immediate processing operations. While treatment can be made continuously, regular slug-dosing treatment will provide adequate control.

#### **INDUSTRIAL WASTEWATER SYSTEMS**

##### **WASTEWATER SYSTEMS, WASTEWATER SLUDGE AND WASTEWATER HOLDING TANKS**

PanaX 100™ 75 should be added to a wastewater system or sludge at a convenient point of uniform mixing such digester. Add 333.33-1666.66 ppm of PanaX 100™ 75 to wastewater or sludge.

##### **MACROFOULING CONTROL**

PanaX 100™ 75 should be added continuously to maintain a level of 20 ppm active ingredient (THPS) in the system for a period of at least 96 hours.

**Initial Dose:** When macrofouling is present in the system, apply 26.66 ppm of PanaX 100™ 75 based on total water volume.

**Continue** to add PanaX 100™ 75 as needed to maintain the 20 ppm active ingredient (THPS) level for a period of at least 96 hours.

##### **SERVICE WATER AND AUXILIARY SYSTEMS**

PanaX 100™ 75 should be added to service water auxiliary systems at the same application rates and in the same manner as described above. It should be added to the system at a point of uniform mixing such as basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**HEAT TRANSFER SYSTEMS:** Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Brewery and Other Pasteurizers, and Warmers Add PanaX 100™ 75 at the same application rates and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**AIR WASHERS SYSTEMS:** For control of bacteria and fungi.

Note: This product may be used only in the air washer systems which have mist eliminating components.

Pre-clean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 35-93.3 ppm of PanaX 100™75 at a point where uniform mixing and even distribution will occur. Repeat as needed to maintain control.

**PAPER AND PAPERBOARD MANUFACTURING**

For control of bacteria, fungi and algae. For use as a slimicide in the manufacture of paper and paperboard products and adhesives that do not contact food.

Dosing: Additions should be made at a point in the system where mixing action is good, e.g. raw stock chest eater or mixing unit. Add intermittently or continuously depending on mill conditions.

Intermittent Dosing: Add 32.7-1333.3 ppm of PanaX 100™ 75 based on total water volume or an equivalent based on dry weight of paper produced.

Continuous Dosing: Add 53.3-186.7 ppm of PanaX 100™ 75 based on total water volume or an equivalent based on dry weight of paper produced.

**COATINGS, PIGMENTS AND FILLER SLURRIES**

Note: Do not use in paper and paperboard and adhesives that will contact food. For use as a preservative to retard microbial growth in water-based coating, starches, pigments and filler slurries. The treatment rate necessary to retard spoilage of the additives will vary with the extent of contamination of make-up water and the length of storage.

Dosing: Apply form 233.33-666.5 ppm of PanaX 100™ 75 to the additive to be preserved based on the total weight of the additive and water.

**EMULSION AND SOLUTION PRESERVATION**

Note: Not for use in manufacture of paper and paperboard products and adhesives that may come in contact with food.

For the preservation of solutions, emulsions, adhesives and other aqueous liquid products, add 0.0233% to 0.233% PanaX 100™ 75. Add at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact amount of PanaX 100™ 75 to be added for the preservation of given formulations will depend on the components as well as local storage time and requirements.

**FIRE PROTECTION SYSTEMS:**

PanaX 100™ 75 is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems. Such microbial growth when combined with other forms of corrosion can lead to accelerated corrosion rates and pitting corrosion, commonly referred to as microbiologically influenced corrosion. PanaX 100™ 75 also removes free oxygen from the water, thus eliminating an important nutrient for bacteria and an important reactant in many corrosion reactions.

PanaX 100™ 75 should be added to a fire protection system using a chemical metering pump capable of variable pump rates. PanaX 100™ 75 should be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 100-400 ppm PanaX 100™ 75 depending on severity of microbial contamination in the system. Repeat as needed.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

