49620-4

06-06-2011



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

JUN - 6 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Diana Graham Keller and Heckman LLP 3 Embarcadero Center Suite 450 San Francisco, CA 94111



Subject: Eka Chemicals, Inc. Purate EPA Reg. No. 49620-4 Application Dated: March 15, 2011 Receipt Date: March 21, 2011

Dear Ms. Graham:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below.

Proposed Amendment:

Label Amendment

Conditions:

- 1. Revise the first statement under 'Disposal of Wastes' to read "Pesticide wastes are acutely hazardous."
- The use pattern "Fuel and Industrial Ethanol Fermenters" is being deleted from the product label per Agency letter dated June 23, 2008.
- 3. Revise the ingredient statement so that the active and other ingredients percentages are aligned.

General Comments:

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions concerning this letter, please contact me at <u>Henson.Wanda@epa.gov</u> or call (703) 308-6345.

Sincerely,

Wanda Henson

Acting Product Manager (32) Regulatory Management Branch II Antimicrobials Division (7510P)

Purate®

A Precursor Chemical Solution for Use Only in the SVP-Pure® Chlorine Dioxide Generator This chemical solution is for the use only in the SVP-Pure® Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure® Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SVP-Pure® Maintenance and Operations Manual to ensure proper activation.

-FOR INDUSTRIAL USE-

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

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

ACTIVE INGREDIENT:	
Sodium Chlorate (NaClO3)	
OTHER INGREDIENTS:	60.0%
TOTAL	

FIRST AID				
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 - 20 minutes.			
	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.			
	Call a poison control center or doctor for treatment advice.			
IF ON SKIN OR	Take off contaminated clothing.			
CLOTHING	Rinse skin immediately with plenty of water for 15 - 20 minutes.			
	Call a poison control center or doctor immediately 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 a poison control center or doctor.			
	Do not give anything by mouth to an unconscious person.			
IF INHALED	Move person to fresh air.			
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably			
	mouth-to-mouth if possible.			
	Call a poison control center or doctor for further treatment.			
Have the produc	ct container or label with you when calling a poison control center or doctor, or going for treatment.			
	NOTE TO PHYSICIAN			
	Probable mucosal damage may contraindicate the use of gastric lavage			

In case of exposure emergency, call Eka Chemicals at (800) 227-5301

EKA CHEMICALS, INC. 1775 West Oak Commons Court Marietta, GA 30062-2254 (770) 578-0858		EPA Reg. No. 49620-4 EPA Est. No. 49620-MS-1 EPA Est. No. 62215-CO-1
	Net Contents	Gallons

ACCEPTED with COMMENTS in EPA Letter Dated:

JUN - 6 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 449620-44

PRECAUTIONARY STATEMENTS • HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or faceshield. When contact is likely wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. 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 hs 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.

CHEMICAL HAZARDS

Purate® is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses:

Purate® is for use only in the *SVP-Pure*® *Chlorine Dioxide Generator*, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for *Purate*® are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. *Purate®* has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. *Purate*® may be used to treat the following aquatic sites: **Recirculating Cooling Water Towers**

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1-1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1-5.0 ppm. Chlorine dioxide must be added to drip pan, cold water well, or other points where adequate mixing and uniform distribution can occur.

Once Through Cooling Water Towers

To remove adult mollusks in once through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5ppm. Chlorine dioxide must be added to drip pan, cold water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water:

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous does. Either method of application must maintain a residual concentration of 0.1

 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm. Impounded lake, pond and reservoir water, including industrial waste water:

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems:

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids:

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent apllication of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters. Ultrasonic tank water; photo processing wash water; and leather processing solutions

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact):

Purate® is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (*e.g.*, show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chlorine dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for non-pesticidal uses such as:Oxidizing nutrientsReducing sludgeEliminating odorsClarifying/precipitating organic and inorganic particlesControlling scale & depositsReducing TOC (Total Organic Carbon)Controlling iron & manganeseReducing colorControlling corrosionDestruction of odors caused by phenolics simple cyanides and sulfides by
chemical oxidation

Storage and Disposal Statement for non-refillable containers:

STORAGE AND DISPOSAL Do not contaminate water, food or feed by storage and disposal STORAGE Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately. **DISPOSAL OF WASTES** Pesticide wastes are extremely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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. CONTAINER HANDLING Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Alternatively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

Storage and Disposal Statement for refillable containers

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal

PESTICIDE STORAGE: Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately. PESTICIDE DISPOSAL: Pesticide wastes are extremely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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. **CONTAINER HANDLING**: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY

EKA CHEMICALS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for purposes stated on such label when used in the SVP-Puree Chlorine Dioxide Generator.

Rev. 03/11