APR | 7 2001

John B. Dubeck Eka Chemicals, Inc. 1775 West Oak Commons Court Marietta, GA 30062-2254

Subject:

PurateTM Precursor

EPA Registration No. 49620-4 Notification Per PR Notice 98-10

Dear Mr. Dubeck:

This will acknowledge receipt of your notification to change the primary brand name and add additional establishment numbers for the above referenced products, submitted under the provisions of FIFRA Section 3 © 9. Based on a review of the submitted materials the following comments apply.

This notification to change the name of the product from $Purate^{TM}$ Precursor to $Purate^{TM}$ and add to add two additional establishment numbers is acceptable and has been made a part of the file for this product.

Sincerely,

Wanda Y. Mitchell Notification Coordinator Regulatory Management Branch II Antimicrobials Division (7510C)

CONCURRENCES						
SYMBOL 7510C						
SURNAME MItche 4		-				
DATE #-17-01						
EPA Form 1320-1A (1/90)		OFFICIAL FILE COPY				

Printed on Recycled Paper

Please read Instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95

0 FD 4	United States			Registration		OPP Identifier Number	
	i vironmental Protectic /ashington, DC 20460	on Agency		Amendme Other	nt		
Application for Pesticide - Section I							
Company/Product Number	Application for	2. EPA Prod		2001	3 Pr	oposed Classification	
49620-4		Robert Br		agei	J. 11	oposed Classification	
4. Company/Product (Name)		PM#				None Restricted	
Purate Precursor			32		<u></u>		
5. Name and Address of Applicant (Include ZIP Code)		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:					
Eka Chemicals, Inc. 1775 West Oak Commons Court		is annual or recrease in composition and raceing to					
Marrietta, GA 30062		EPA Reg. No					
Check if this is a new address		Product Na	ame				
	Se	ection II					
Amendment - Explain Below				els in response to			
Resubmission in response to Agency Letter dated	L	"Me To	"Me Too" Application.				
Notification - Explain below.		<u> </u>	explain b				
Explanation: Use additional page(s) if nece	ssary. (For section I	and Section II.)					
Notification of change in primary brand nam labeling. This notification is consistent with							
changes have been made to the labeling or th	ne Confidential State	ment of Formula	of this	product. I unde	erstand	that it is a violation of	
18 U.S.C. Sec. 1001 to willfully make any fatterms of PR Notice 98-10 and 40 C.F.R. 152							
and penalties under sections 12 and 14 of FI		y be in violation	OTTE	ar and I may be	, suoje	set to emoteoment action	
	Se	ection III					
1. Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging	Water S	oluble Packaging		2. Type of Cor	tainer		
Yes* Yes		Yes		Me Me	etal astic		
No No		No		GI	ass iper		
If "yes,"	No. per If "Yes,"		o per			ecify)	
* Certification must be submitted.	container Package	wgt. co	ntainer				
Location of Net Contents Information	4. Size(s) of Retail Container 5. Location of Label Directions			ons			
Label Container	30 gal, 55 gal and t		On Labeling accompanying product				
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Other (_accompanying shipping papers)							
Section IV							
1. Contact Point (Complete items directly below for Name	identification of individual Title	al to be contacted, if	necessa	ary, to process this		eiton.) , one No. (kx.ludu.\rea Code)	
John B. Dubeck	Regis	tration Agent				202-434-4125	
Certification				l	6. Date Application		
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.							
l acknowledge that any knowingly false for misleading statement may be punishable by fine or imprisonment or both under applicable law.							
2. Signatuse A 3. Title						3, 31333	
		istration Agent	tration Agent			3133	
4. Typed Name 5. Date						, ,	
John B. Dubeck 3/27/01				, , , , , ,			
FPA Form 8570-1 (rev. 8-94) Previous editions are obsolete				(orininal)		'ellow - Annlicant conv	

Purate™

Aqueous Solution with 40% Sodium Chlorate and 10% Hydrogen Peroxide

A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator

This chemical solution is for 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 requires a feedstock of 78% sulfuric acid.

- FOR INDUSTRIAL USE ONLY -KEEP OUT OF REACH OF CHILDREN

DANGER

Purate™ is corrosive. Causes irreversible eye damage. Causes skin burns. Do not get in eyes or on skin or clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. May be fatal if inhaled. Remove contaminated clothing and wash before reuse.

FIRST AID				
IF IN EYES	Hold eye open and rinse slowly and gently 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 15-20 minutes. Call a poison control center or doctor for treatment advice.			
IF SWALLOWE	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 product 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.			

Sodium Chlorate (NaClO ₃) OTHER INGREDIENTS:	<u>60.0%</u>
EKA CHEMICALS, INC.	EPA Reg. No. 49620- $6^{\hat{i}}$
1775 West Oak Commons Court Marietta, GA 30062-2254	EPA Est. No. 49620-MS-1 EPA Est. No. 48520-CT-1 EPA Est. No. 65001-CO-1

ACTIVE INCOEDIENT.

Net Contents ____ Gallons

4/6

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Purate™ is corrosive. Causes irreversible eye damage. Do not get in eyes or on skin or clothing. Wear protective eyewear (goggles or face shield). Wear protective clothing and neoprene gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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 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.

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.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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 generator based on input provided 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 should 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 mollusc 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 and non-recirculating cooling water: To control microbial and algal slime in cooling water systems, an intermittent or continuous application may be used. If using a 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. In recirculating systems, chlorine dioxide should be added to the drip pan, cold water well, or other points where adequate mixing and uniform distribution can occur. To remove adult mollusks in once-through cooling water systems, an intermittent dose of 0.2 - 25 ppm is 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 of mollusks (veligers), apply a continuous feed to achieve a residual of 0.1 - 0.5 ppm.

Textile processing water and pulp and paper process water for paper that does not contact food? 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 dose. Either method of application should 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.

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 chlorine 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 bacterial biofilms, and to oxidize sulfides, a continuous or intermittent application 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 or 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 should 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 nutrients
Eliminating odors
Controlling scale & deposits
Controlling iron & manganese
Controlling corrosion

Reducing sludge
Clarifying/precipitating organic and inorganic particles
Reducing TOC (Total Organic Carbon)
Reducing color
Destruction of odors caused by phenolics simple cyanides
and sulfides by chemical oxidation



STORAGE AND DISPOSAL

STORAGE

Unless delivered in bulk, store in the original container. Store at ambient temperatures from 40 °F to 100 °F. Do not store with sulfuric acid precursor. Store in fire-resistant area separate from incompatible materials such as powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

DISPOSAL OF WASTES

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 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 DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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-Pure™ Chlorine Dioxide Generator.