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PURATE™

A Precursor Chemical Solution for Use Only in a PURATE™ Chlorine Dioxide Generator

This chemical solution is for use only in a PURATE™ Chlorine Dioxide Generator a pesticide device that produces CHLORINE DIOXIDE absorbed into water for Microorganism Control in Recirculating Cooling Systems, Pulp and Paper Mills Process Water and Pulp and Paper White Water Influent Water.

In addition to this precursor, the PURATE™ Chlorine Dioxide Generator requires a feedstock of 78% sulfuric acid

COMMERCIAL

ACTIVE INGREDIENT:

Sodium Chlorate..... 40.0%

REGISTRATION NO. 29887 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

DANGER
EXTREMELY FLAMMABLE



POISON
CORROSIVE TO THE EYES AND SKIN

Nalco Canada ULC
1055 Truman St./P.O. Box 5002
Burlington, Ontario
L7R 3Y9
Tel: 905-633-1000

Net Contents: 1136 L or Bulk

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

DANGER POISON. Fatal or poisonous if swallowed. Harmful if inhaled. CORROSIVE TO EYES AND SKIN. Do not get in eyes, on skin, or on clothing. Do not inhale mist or sprays. Wear chemical resistant coveralls over long sleeved shirt and long pants, goggles or face shield, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading and application, clean up and repair. Wash after handling and before eating, smoking or using the toilet. Remove contaminated clothing and wash before reuse to avoid fire. Do not allow contaminated clothing to dry before washing onsite. DO NOT wear contaminated clothing.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF ON SKIN OR CLOTHING: Take off contaminated clothing and shoes immediately. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre or doctor 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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. Call a poison control centre or doctor for treatment advice.

IF INHALED: Put on a NIOSH/MSHA self-contained breathing apparatus. Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION:

Treat symptomatically. Overexposure to this product via the oral route can cause intravascular hemolysis, cardiac arrhythmia and renal tubular injury. Possible mucosal damage may contraindicate the use of gastric lavage.

PHYSICAL AND CHEMICAL CAUTIONS

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 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. Mixing with acids or alcohol or other chemicals may cause evolution of chlorine and chlorine dioxide gas mixtures which are toxic and may be explosive.

STORAGE

Unless delivered in bulk, store in the original container. Store in a well ventilated area away from heat or flame. Do not drop, roll or skid drum. Keep upright. Always replace cover and keep sealed. Store in a cool, dry area <25°C. Protect from freezing. 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

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow the Provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and birds.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

DIRECTIONS FOR USE

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. DO NOT discharge effluent containing this product or the biocide produced into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters unless the effluent has been detoxified by suitable means.

Purate is for use only in a Purate Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for controlling microorganism contamination in recirculating and once-through cooling systems, or pulp and paper mill process water and pulp and paper white water influent water. Please refer to a Purate Chlorine Dioxide Generator Maintenance and Operations Manual to ensure proper activation.

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 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.

For Pulp and Paper White Water Influent Water: For microbial control in influent water to be used as make-up water in white water systems, apply to influent water at a rate not to exceed 5.0 ppm chlorine dioxide.

For Recirculating Cooling Systems 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 doses. Either method of application should maintain a residual concentration of 0.5 - 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. Concentrations should be between 5 and 100 ppm for intermittent shock doses.

Bacterial slime control in Once-Through Cooling Water Systems

For control of bacterial slime in industrial once-through cooling water systems, the required dosages will vary depending on the degree of contamination present. The required chlorine dioxide residual concentrations range between 0.5 and 5.0 ppm. Chlorine dioxide may be applied either continuously or intermittently. The typical chlorine dioxide residual concentration range is 0.5 - 1.0 ppm for continuous doses and 0.5 - 5.0 ppm for intermittent doses.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

USE RESTRICTION

This product is to be used only in a closed system (i.e. dry coupling) PURATE chlorine dioxide generator. Follow all instructions for the chlorine dioxide generator carefully and follow all safety measures required for the use of this product and the generator. Generators are to be installed, adjusted and maintained by specially trained service representatives only