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# ALPHA 544

Controls bacteria, fungi and yeasts in paper mills, metalworking fluids containing water, and enhanced oil recovery systems; controls bacteria and algae in industrial recirculating water cooling towers and oilfield applications.

INDUSTRIAL  
solution  
DANGER



POISON

POTENTIAL SKIN SENSITIZER  
CORROSIVE TO EYES AND SKIN

READ THE LABEL BEFORE USING

GUARANTEE: 2,2-dibromo-3-nitrilopropionamide...20%

REGISTRATION No. 31262  
PEST CONTROL PRODUCTS ACT

Baker Hughes Canada Company  
Gulf Canada Square, 1000 – 401 9<sup>th</sup> Avenue SW  
Calgary, Alberta T2P 3C5  
**800-231-3606**

## **HOT LINE NUMBER**

In case of an emergency endangering life or property involving this product, call (403) 537-3850. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NET CONTENTS:

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER: CORROSIVE TO EYES AND SKIN;  
FATAL OR POISONOUS IF SWALLOWED; POTENTIAL SKIN  
SENSITIZER**

Do not get in eyes, on skin, or on clothing • Wear Chemical Workers' goggles when handling • Wear a long-sleeved shirt, long pants and shoes plus socks when handling • Wash thoroughly after handling • Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet • Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills • Then wash skin thoroughly and put on clean clothing • Wash contaminated clothing separate from other laundry prior to reuse • Users should remove protective clothing immediately after handling this product • Wash the outside of gloves before removing • As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

## **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 centre 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 centre or doctor for treatment advice.

### **If Swallowed**

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

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

**TOXICOLOGICAL INFORMATION:** Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

## **DIRECTIONS FOR USE**

NOTE: Add ALPHA 544 separately to the system. Do not mix with other additives in order to avoid decomposition of ALPHA 544 due to the high pH of many additive formulations.

**PAPER MILLS** For the control of bacterial, fungal and yeast growth in pulp, paper and paper-board mills, add ALPHA 544 at the rate of 60-210 mL/tonne of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of the product in the mass of fiber and water such as the beaters, Jordan inlet or discharge, broke chest, furnish chests, save-alls and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 60-140 mL ALPHA 544 /tonne of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 140-210 mL ALPHA 544 /tonne of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 60-140 mL ALPHA 544 /tonne of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a cleanup of the paper machine may be advisable.

Slightly fouled systems should be treated continuously with 60-140 mL ALPHA 544 /tonne of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

## **INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**

This product is for recirculating water systems only.

Add ALPHA 544 to the basin (or any other point of uniform mixing). Addition should be made with a metering pump. It may be continuous or intermittent, depending on the severity of the contamination when treatment is begun, and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If “shock” treatment is used, the blowdown should be discontinued for 24-48 hours.

## **FOR CONTROL OF BACTERIA**

Add 1.0-10 mL ALPHA 544 /1000 L of water in the system, depending on the severity of contamination. Intermittent or Slug Method – Initial Dose: When the system is noticeably fouled, add 5.0-10 mL ALPHA 544 /1000 L of water in the system. Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 3.0-10 mL ALPHA 544 /1000 L of water in the system every 4 days or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method – Initial Dose: When the system is noticeably fouled, add 5.0-10 mL ALPHA 544 /1000 L water to the system. Subsequently maintain this level by pumping a continuous feed of 0.5-5.0 mL of product /1000 L of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF ALGAE Add 30-95 mL ALPHA 544 /1000 L of water in the system, depending on the severity of contamination.

Intermittent or Slug Method – Initial Dose: When the system is noticeably fouled, add 50-95 mL ALPHA 544 /1000 L of water in the system. Repeat until control is achieved.

Subsequent Dose: When algal control is evident, add 30-95 mL ALPHA 544 /1000 L of water in the system daily, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method – Initial Dose: When the system is noticeably fouled, add 50-95 mL ALPHA 544 /1000 L of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 30-95 mL ALPHA 544 /1000 L of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

## **METALWORKING FLUIDS CONTAINING WATER**

This product is effective in metalworking concentrates which have been diluted in water at ratios of 1:100 to 1:4.

For controlling (or inhibiting) growth of bacteria, fungi and yeast that may deteriorate metalworking fluids containing water, add ALPHA 544 to the fluid in the collection tank. Additions should be made with a metering pump.

Initial or Slug Dose: When the system is just noticeably fouled, add 250 mL ALPHA 544/1000 L of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 100-200 mL of ALPHA 544 /1000 L of metalworking fluid per day or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

## **OIL FIELD APPLICATIONS**

For reduction of bacterial contamination and degradation in oil recovery operations, add ALPHA 544 to the system at a rate of 0.8 to 64 mL per 1000 L water (1.0 to 80 ppm product) depending on the severity of contamination. Add at a point of uniform mixing, at the concentration within the stated dosing range

for the relevant product application. Subsequent treatments can be applied, as needed, to maintain an effective microbial control concentration, within the described dosage range. The stated concentration ranges provide microbial control of microorganisms at differing levels of contamination.

### **FRACTURING FLUIDS**

The product reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. The product must be added to the water storage tanks before gelling and circulated to ensure mixing. The product can be added at the well head for “on-the-fly” fracturing jobs.

Dose: ALPHA 544 must be added at a rate of 20 to 64 mL per 1000 L water (25 to 80 ppm product) depending on water quality. Retreat after 48 hours if the frac job is delayed.

### **ENHANCED OIL RECOVERY (EOR) FLUIDS**

The product reduces bacterial contamination and degradation of EOR polymers and gels. The product must be added to injection water before polymer addition.

Dose: ALPHA 544 must be added at a rate of 0.8 to 64 mL per 1000 L water (1.0 to 80 ppm product). Product must be added at a point to ensure proper mixing.

### **WATER FLOOD**

The product can be used to control slime and corrosion causing bacteria in waters used for secondary oil and gas recovery. If the system is heavily fouled, slug treat at the higher rate to remove biofilm. For maintenance, batch treat two to three times per week.

Dose: ALPHA 544 must be added at a rate of 0.8 to 64 mL per 1000 L water (1.0 to 80 ppm product). Product must be added at a point to ensure uniform mixing.

**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. The user assumes the risk to persons or property that arises from any such use of this product.

### **STORAGE**

To maintain product quality, store at temperatures below 35C. Keep package tightly closed when not in use. Do not contaminate water, food or feed by storage or disposal.

### **DISPOSAL**

1. Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow 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 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.

Made in USA