



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

74655-31

Date of Issuance:

JUL 12 2010

Term of Issuance:

Conditional

Name of Pesticide Product:

Biosperse 254

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Kate Ingram
Hercules Inc.
1313 North Market Street
Wilmington, DE 19894

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. 74655-31".

Signature of Approving Official:

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

Date:

JUL 12 2010

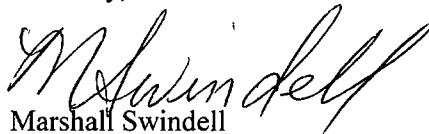
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- b. The Agency encourages registrants to include a company telephone number or toll-free hotline number for emergency information in the first aid section. If registrant does not have its own number, the registrant may use the National Pesticides Information Center (NPIC) 800 number, 1-800-858-7378.

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)

JUL 12 2010

Enclosure: (Stamped Label)



Active Ingredient:	
Glutaraldehyde	50%
Inert Ingredients	50%
Total	100%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**FIRST AID**

If Swallowed: Call a poison control center or a doctor immediately for treatment advice. **DO NOT INDUCE VOMITING.** Do not give anything to drink.

If In Eyes: Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Call a poison control center or a doctor immediately 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 a doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

Produced for Hercules Inc., A wholly owned subsidiary of Ashland Inc.

Made in USA

EPA Reg. No. 74655-  
 EPA Est. No. 10352-WV-2 (A); 464-WV-1 (B)  
 (A) 5 gallon pails in pallets; all drums, bulk  
 (B) Sample, 5 gallon pails less than full pallet

**ACCEPTED**  
**with COMMENTS**  
**EPA Letter Dated:**  
**JUL 12 2010**

**Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 74655-31**

**DIRECTIONS FOR USE**

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

**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS /  
 RECIRCULATING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components. BIOSPERSE 254 should be added at the application rates described below to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with BIOSPERSE 254. Under these conditions, blowdown should be discontinued for up to 24 hours.

BIOSPERSE 254 can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

**INTERMITTENT (SLUG DOSE) METHOD**

Initial Dose: When the system is noticeably fouled, apply 11.3 to 22.7 fl.oz (100 to 200 ppm product) of BIOSPERSE 254 per 1000 gallons of water in the system, or 89 to 177 mL of BIOSPERSE 254 per 1000 liters of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 4.5 to 11.3 fl.oz. (40 to 100 ppm) of BIOSPERSE 254 per 1000 gallons of water in the system weekly, or 35 to 89 mL of BIOSPERSE 254 per 1000 gallons of water in the system weekly 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, apply 11.3 to 22.7 fl.oz (100 to 200 ppm product) of BIOSPERSE 254 per 1000 gallons of water in the system, or 89 to 177 mL of BIOSPERSE 254 per 1000 liters of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.3 to 11.3 fl.oz. (20 to 100 ppm product) of BIOSPERSE 254 per 1000 gallons of water in the system per day or 17.7 to 88.6 mL of BIOSPERSE 254 per 1000 liters of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

**SERVICE WATER AND AUXILIARY SYSTEMS**

BIOSPERSE 254 should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

**HEAT TRANSFER SYSTEMS**

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

BIOSPERSE 254 should be used 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.

**INDUSTRIAL WASTE WATER SYSTEMS**

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

BIOSPERSE 254 should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.4 to 2.0 gallons (450 to 2250 ppm product) of BIOSPERSE 254 per 1000 gallons of wastewater of sludge or 399 mL to 1994 mL of BIOSPERSE 254 per 1000 liters of wastewater of sludge.

**BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS**

BIOSPERSE 254 should be added to the system at a point of uniform mixing such as the diffuser, transport water pump, weir box, or diffuser feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously.

**INTERMITTENT (SLUG DOSE) METHOD**

Initial Dose: When the system is noticeably contaminated, add 5.4 to 13.6 fl.oz. (200 to 500 ppm product) of BIOSPERSE 254 per ton or 177 to 422 mL of BIOSPERSE 254 per metric ton of sliced beets as a slug dose. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fl.oz. (30 to 300 ppm) of BIOSPERSE 254 per ton or 27 to 270 mL of BIOSPERSE 254 per metric ton of sliced beets in the system as a slug dose as necessary to maintain control. The total should not exceed 106 gallons per 1000 tons of beets sliced per day.

**CONTINUOUS FEED METHOD**

Initial Dose: When the system is noticeably contaminated, add 5.4 to 13.6 fl.oz./min (200 to 500 ppm product) of BIOSPERSE 254 per ton or 177 to 422 mL/min of BIOSPERSE 254 per metric ton of beets sliced per minute in the system via automatic pump of suitable construction.

Subsequent Dose: When microbial control is evident, add 0.8 to 8.2 fl.oz./min (30 to 300 ppm product) of BIOSPERSE 254 per ton or 27 to 270 mL/min of BIOSPERSE 254 per metric ton of beets sliced per minute, or as necessary to maintain control. The total should not exceed 106 gallons per 1000 tons of beets sliced per day.

**PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS**

BIOSPERSE 254 should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank.

Initial Dose: When the system is noticeably contaminated, add 0.3 to 2.0 lbs of BIOSPERSE 254 per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. **ACCEPTED** **with COMMENTS** systems should be boiled out prior to initial treatment.

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Subsequent Dose: When microbial control is evident, add 0.3 to 2.0 lbs of BIOSPERSE 254 per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

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**PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD**

(For use in food and non-food contact pigments and filler slurries)

Use from 0.1 to 0.6 lbs. BIOSPERSE 254 per 1000 lbs of dry powder to produce a concentration from 100 to 600 ppm as product (based on slurry solids) in the mixed slurry.

**WATER BASED COATINGS FOR PAPER AND PAPERBOARD**

NOTE: for use in non-food contact coatings only.

Use from 0.1 to 0.6 lbs. BIOSPERSE 254 per 1000 lbs of dry powder to produce a concentration from 100 to 600 ppm as product (based on slurry solids) in the mixed slurry.

**AQUEOUS METALWORKING FLUIDS**

BIOSPERSE 254 should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less.

Initial Dose: When the system is noticeably fouled apply 1.8 to 5.4 gallons of BIOSPERSE 254 per 10,000 gallons of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.7 to 3.6 gallons of BIOSPERSE 254 per 10,000 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment if begun.

**WATER BASED CONVEYOR LUBRICANTS**

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

Avoid contamination of food in application of product.

Thoroughly clean all tracks and conveyors to remove gross soil. Rinse well. Use an automatic feed system to provide 1.1 to 6.8 fl.oz. (50 to 300 ppm active) of BIOSPERSE 254 per 100 gallons of diluted lubricant.

**GENERAL PRESERVATIVE USE**

BIOSPERSE 254 is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products to control the growth of bacteria and fungi. For effective preservation, add BIOSPERSE 254 to the product formulation at a rate of 0.02% to 0.20% (200 to 2000 ppm) based on the water content of the product (0.2 to 2.0 lbs BIOSPERSE 254 per 1000 lbs water content). Mix uniformly.

**PRESERVATIVE FOR CONCENTRATES**

For use in concentrates where effective preservation is needed after dilution, add BIOSPERSE 254 to the product formulation at a rate such that the diluted end-use product will contain 0.02% to 0.20% BIOSPERSE 254.

**At no time during the preservation process should the level of BIOSPERSE 254 exceed 2.0%.**

**REVERSE OSMOSIS MEMBRANES**

For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.2% to 2.0% BIOSPERSE 254. BIOSPERSE 254 can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.2% to 2.0% BIOSPERSE 254 to the tank in the circulating system. Maintain the concentration of BIOSPERSE 254 by periodic addition to counteract any system leakage.

**CONCRETE ADMIXTURES**

For effective preservation of concrete admixtures, add BIOSPERSE 254 to the product formulation at a rate of 2000 to 8000 ppm based on the weight of the admixture (2.0 to 8.0 lbs BIOSPERSE 254 per 1000 lbs. concrete admixture). Mix uniformly.

**WATER FLOODS**

BIOSPERSE 254 should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 100 to 5000 ppm BIOSPERSE 254 to the system (0.09 to 4.4 gallons BIOSPERSE 254 per 1000 gallons flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 to 5000 ppm BIOSPERSE 254 (0.02 to 4.4 gallons BIOSPERSE 254 per 1000 gallons flood water) to the system weekly, or as needed to maintain control.

**FRAC FLUIDS**

BIOSPERSE 254 reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add BIOSPERSE 254 to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

Dose Range: BIOSPERSE 254 should be added with a concentration of 1000 to 5000 ppm (0.9 - 44.3 gals per 10,000 gallons) depending on the degree of bacterial fouling in the well.

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