

2017-4348  
2018-05-28

# BIOSPERSE 244

LIQUID FOR CONTROL OF ALGAE, BACTERIA AND FUNGI  
INDUSTRIAL

## DANGER

CORROSIVE POISON  
**POTENTIAL SKIN SENSITIZER**  
**READ THE LABEL BEFORE USING**

ACTIVE INGREDIENT:  
2,2-DIBROMO-3-NITRILOPROPIONAMIDE.....20%  
REGISTRATION NO. 15506  
PEST CONTROL PRODUCTS ACT

**NET CONTENTS: 0.05L-20,000L**  
**LOT #**

Solenis Canada ULC  
942 Brant Street  
Burlington, ON L7R 2J7  
Telephone: 1-905-632-7861  
Emergency Telephone: 1-844-SOLENIS (1-844-765-3647)

## PRECAUTIONS

POTENTIAL SKIN SENSITIZER. KEEP OUT OF REACH OF CHILDREN. Biosperse 244 is a toxic material; may cause injury to eyes; may burn the skin; may be harmful or fatal if swallowed. Avoid breathing mists of this material. Do not reuse empty containers. Do not ship or store with food, feeds or clothing.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing/protective equipment 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 clothing/protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Wear safety glasses or face shield, rubber gloves, a long-sleeved shirt, long pants and shoes plus socks when handling.

## FIRST AID:

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.

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 inhaled, 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.

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

**TOXICOLOGICAL INFORMATION:**

Contact with eyes may cause conjunctival irritation and corneal injury. The eye should heal without permanent damage or impairment of vision within a week. A single, short skin exposure should result in no significant irritation.

Prolonged or frequent skin exposure may cause irritation or a burn. Ingestion of small amounts may be capable of causing serious illness.

**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. Treated effluent should not be discharged where it will drain into lakes, ponds, streams or public water. Do not contaminate water by cleaning of equipment or disposal of wastes or containers. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
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 the clean-up of spills.

**NOTICE TO USER**

This 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.

REFER TO MATERIAL SAFETY DATA HANDLING SHEET PRIOR TO USE

**DIRECTIONS FOR USE:**

Add Biosperse 244 separately to the system. Do not mix it with other additives, in order to avoid decomposition of Biosperse 244 due to the high pH of many additive formulations.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS**

Add Biosperse 244 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 Biosperse 244/1000 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 Biosperse 244/1000 L of water in the system. Repeat until control is achieved. Subsequent dose: When microbial control is evident, add 3.0-10 mL Biosperse 244/1000 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 Biosperse 244/1000 L water to the system. Subsequently maintain this level by pumping a continuous feed of 0.5-5.0 mL Biosperse 244/1000 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 Biosperse 244/1000 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 Biosperse 244/1000 L of water in the system. Repeat until control is achieved.

Subsequent Dose: When algal control is evident, add 30-95 mL Biosperse 244/1000 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 Biosperse 244/1000 L of water to the system. Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 30-95 mL Biosperse 244/1000 L of water in the system per day. Badly fouled systems must be cleaned before treatment is begun. This product is for recirculating water systems only.

## PAPER MILLS

For the control of bacterial, fungal and yeast growth in pulp, paper and paper-board mills, add Biosperse 244 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 Biosperse 244 in the mass of fiber and water such as the beaters, Jordan refiners inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks.

Heavily fouled systems should be boiled out, then treated with 60-140 mL Biosperse 244/tonne of paper (dry basis), as necessary for control.

Moderately fouled systems should be treated continuously with 140-210 mL Biosperse 244/tonne of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 60-140 mL Biosperse 244/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 Biosperse 244/tonne of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

NOTE: This product is not to be used in the production of paper or paperboard that comes into contact with food.

## 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 Biosperse 244 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 250mL Biosperse 244/1000L of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 100-200mL of Biosperse 244/1000L of metalworking fluid per day or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

## ENHANCED OIL RECOVERY SYSTEMS

For controlling slime-forming bacteria, sulfide-producing bacteria, yeasts and fungi in oil field water, polymer or micellar floods, water-disposal systems, or other oil field water systems, add 1-80ppm by weight Biosperse 244 (2-60mL Biosperse 244/cubic metre of water) depending on the severity of contamination. Additions should be made with a metering pump either continuously or intermittently.

Continuous Feed Method: When the system is noticeably fouled, add 10-80ppm by weight Biosperse 244 (10-60mL Biosperse 244/cubic metre of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15ppm by weight Biosperse 244 (2-10mL Biosperse 244/cubic metre of water) continuously, or as needed to maintain control.

Intermittent or Slug Method: When the system is noticeably fouled, or to maintain control of the system, add 10-80ppm of weight (10-60mL Biosperse 244/cubic metre of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending on the severity of contamination. Addition of Biosperse 244 may be made at the free water knockouts, before or after the injection pumps and injection well headers.

NOTE: For control of bacteria, yeast and fungi in aqueous solutions of biopolymer used in flooding operations, add 15-80ppm by weight Biosperse 244 (10-60mL Biosperse 244/cubic metre of water). Additions of Biosperse 244 should be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.