

ROCIMA™ KO Microbiocide

Fast acting, broad spectrum biocide for treating raw materials, process water, and contaminated products and systems (EPA Registration: 8622-20-707)

Description

ROCIMA KO Microbiocide offers broad spectrum control of bacteria, fungi and algae. It is quick-acting and breaks down rapidly into non-hazardous materials.

Active Ingredient

2,2-Dibromo-3-nitrilopropionamide (DBNPA)

Physical and Chemical Properties

These properties are typical but do not constitute specifications.

Appearance	Clear colorless to amber liquid
Active Ingredient (AI) concentration	20%
Inert Ingredients	Water and polyethylene glycol
Specific Gravity	1.235 to 1.285
pH (25°C)	2 to 5

Features	Benefits
Broad spectrum activity	Able to eradicate a wide range of microbes (fungal, bacterial, algal)
Fast acting (effective control can occur in minutes)	Minimizes production down time and delays due to contamination
Decomposes to carbon dioxide, ammonia and bromide ions	Environmentally friendly
Liquid formulation	Handling ease
Does not contain or release HCHO and is non-mutagenic, non-carcinogenic, non-teratogenic	Does not contribute problematic components to formulations or create long term health and safety concerns

U.S. Regulatory Clearances

ROCIMA KO Microbiocide is registered with U.S. Environmental Protection Agency. ROCIMA KO Microbiocide also complies with the following U.S. Food and Drug Administration (FDA) clearances:

- 21 CFR 175.105 (Adhesives) for use as a preservative only.
- 21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty foods) for use as a preservative at a level not to exceed 100 parts per million of DBNPA active ingredient in coating formulations and in component slurries and emulsions, used in the production of paper and paperboard and coatings for paper and paperboard.
- 21 CFR 176.180 (Components of paper and paperboard in contact with dry food) for use as a preservative at a level not to exceed 100 parts per million of DBNPA active ingredient in coating formulations and in component slurries and emulsions, used in the production of paper and paperboard and coatings for paper and paperboard.
- 21 CFR 176.300 (Slimicides) for use at a maximum level of 0.1 lb. of DBNPA active ingredient per ton of dry weight fiber.

These clearances apply only to ROCIMA KO Microbicide as supplied by Rohm and Haas Company.

Directions for Use

This product is an EPA registered microbicide. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

ROCIMA KO can be added at any phase of production provided that thorough mixing is achieved. Should the manufacturing process involve heating of the product, it is advisable to add ROCIMA KO after cooling down at the end of the process.

ROCIMA KO may be used to reduce microbial contamination in raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions, sizing, caulk, process water, along with specialty industrial products including inks, polishes, waxes, detergents and cleansers.

To reduce microbial contamination, add ROCIMA KO to the material or product at a concentration of 25 to 2,000 ppm by weight. This concentration is equivalent to 2.8 to 224.0 fluid ounces of ROCIMA KO per 1,000 gallons or 21.4 to 1,712 milliliters of ROCIMA KO per 1,000 liters. The required concentration will depend on the material being treated and the level of contamination present.

Formulation Compatibility

Use levels of ROCIMA KO are completely miscible with aqueous systems and easily dispersed upon addition.

Compatible Materials

Metals*	Plastics	Elastomers
Glass Lined Metal	Chlorinated Polyethylene (CPE)	Hypalon
Hastalloy C-276	Fiberglass reinforced plastics	Viton
Titanium	Kynar	
	Polyethylene, crosslinked, low density, high density	
	Polypropylene	
	PVC	
	Teflon	

*316 stainless steel can be used for short-term storage or transport, but should be washed thoroughly after use to prevent general corrosion and pitting.

Stability

ROCIMA KO is stable under normal conditions. Avoid process temperatures of 70°C (158°F) or higher and the use of strong reducing agents.

Handling

Please refer to the safety data sheet of this product for precise handling instructions. The processing and use of industrial chemicals require adequate technical and professional knowledge.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact, despite precautionary measures, wash immediately and thoroughly with plenty of warm water and obtain medical attention.

Vapors, including cyanogen bromide, may be present in unvented containers. These vapors may be irritating to the upper respiratory tract of workers, who allow their mouth or nose to get close to the container opening.

Decontamination

WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Adsorb the spill with spill pillows or inert solids such as clay or vermiculite, and transfer contaminated materials to

suitable and properly labeled open containers for disposal. Deactivate spill area with freshly prepared solution of 10% sodium bicarbonate in water. Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient. Let stand for 30 minutes. Flush the spill area with copious amounts of water to chemical sewer (if in accordance with local procedures, permits and regulations). DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material.

Storage

ROCIMA KO should be stored in a dark, cool, dry well-ventilated area, below 95°F (<35°C) in the closed original container. ROCIMA KO decomposes exothermically at elevated temperatures. Do not store under conditions where heat cannot be dissipated.

Packaging

ROCIMA KO Microbicide is available in 44 pound polyethylene pails, 500 pound polyethylene drums and 2,500 pound one-way recyclable totes. All containers are vented.

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