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## HAJCIMA 30 Microbicide

### Description

HAJCIMA 30 is a liquid microbicide for use in controlling the growth of bacteria and algae in industrial applications, and as a preservative to inhibit bacterial spoilage during manufacture, distribution, use and storage of industrial, household and institutional products.

### General Description

HAJCIMA 30 Microbicide is a highly effective industrial grade formulation of Bronopol with well-proven antimicrobial activity and positive environmental safety characteristics.

### Active Ingredients

2-Bromo-2-nitropropane-1,3-diol

### Physical and Chemical Properties

These properties are typical but do not constitute specifications.

Appearance : Clear to practically colorless to clear yellow liquid

Active Ingredient : (AI) concentration 30%

Inert ingredients : Water and propylene glycol

Density @ 20°C : 1.19 to 1.21 g

### Features and Benefits

#### Features Benefits

Excellent antimicrobial activity, including control of BIT resistant *Pseudomonas*

Ability to control resistant/tolerant organisms and complement other biocides for improved preservation

Approved for many applications Flexibility for customer use

Fast acting (effective control can occur in minutes)

Minimizes production down time and delays due to contamination

Extensive toxicological and ecotoxicological data demonstrating that HAJCIMA 30 is nonirritating, non-sensitizing when applied at normal use levels and is non-mutagenic, noncarcinogenic, non-teratogenic

Liquid formulation Simplifies biocide dosing

### Microbiological Activity

Test Organism	No. of Strains Tested	Minimum Inhibitory Concentration (MIC) (ppm active ingredient)
<i>Pseudomonas</i>	58 (5 species)	12.5 to 50
Other Gram Negative Bacteria	80 (24 species)	12.5 to 50
<i>Staphylococcus</i>	49 (7 species)	12.5 to 50
Other Gram Positive Bacteria	10 (4 species)	12.5 to 50
<i>Desulfovibrio</i> spp.	9	0.39 to 12.5
Yeast ( <i>Candida</i> )	4 (1 specie)	400
Dermatophytic fungi	11 (11 species)	50 to 200
Spoilage fungi	7 (7 species)	400 to 3,200

The Minimum Inhibitory Concentrations (MIC) shown in the table above indicate that HAJCIMA 30 Microbicide is active against a broad range of bacteria at low levels. Much higher concentrations of HAJCIMA 30 Microbicide are needed to control yeast and mold; therefore, HAJCIMA 30 Microbicide should be combined with other biocides such as HAJTHON™ Microbicide to achieve broad spectrum protection.

### Formulation Compatibility

Use levels of HAJCIMA 30 are completely miscible with aqueous systems and easily dispersed upon addition.

### Temperature Stability

HAJCIMA 30 is stable under normal conditions. Avoid process temperatures of 40°C (104°F) or higher and the use of strong reducing agents.

### pH Stability at Use Levels

Temp°C (°F)	pH 4	pH 6	pH 8
5°C (41°F)	>>5 years	>6 years	6 months
25°C (77°F)	>>5 years	6 years	4 months
40°C (104°F)	>2 years	4 months	8 days
60°C (140°F)	2 weeks	36 hours	3 hours

HAJCIMA 30 shows optimum pH stability in the acidic range with excellent efficacy. At alkaline pH, HAJCIMA 30 is less stable but provides effective control. HAJCIMA 30 reaches equilibrium with its degradation products, which are also microbiologically active. This self-stabilization permits HAJCIMA 30 to maintain effective preservation even within more alkaline systems.

### Directions for Use

To be used in a manner consistent with its labeling.

### General Use Directions

To control the growth of slime-forming, spoilage, odor-causing and corrosion-inducing bacteria and algae in industrial applications, HAJCIMA 30 can be dosed directly either by open pouring or by metered pump. Do not apply by open pouring of liquid to cooling water systems; a metering pump system is required for this use and application method. For process application treatments, HAJCIMA 30 may be by slug dose initially when the system is noticeably fouled and reduced to a maintenance dose once microbial control is evident. For some applications, treatment may be by slug dose only or by maintenance dose only. The recommended dosing regimes (slug/maintenance dose) and the dose rates are as indicated in the individual use area instructions.

For preservation during manufacture, distribution, storage, and use of industrial, consumer, household, and institutional products, HAJCIMA 30 is best added to any liquid phase as late as possible during the manufacturing process. Add after any heating stage, or when the product has cooled to below 40°C. Ensure good mixing and even distribution throughout the product.

See individual use areas for more detailed directions for use

<b>HAJCIMA 30 Application</b>	<b>HAJCIMA 30 Dose Levels (Product As Is)</b>	<b>HAJCIMA 30 Dose Level (Active Basis)</b>
Absorbent Clays such as fullers earth, sepiolite and attapulgite	0.11 to 0.86 fluid ounces per 100 pounds of clay	25 to 200 ppm active ingredient
Adhesives	0.3 to 1.5 pints per 100 pounds total formulation weight	25 to 200 ppm active ingredient
Consumer, Household, and Institutional Products; Surfactants and Raw Materials	2.2 to 11.2 pints per 1,000 gallons	100 to 500 ppm active ingredient
Industrial Process Water (for use in closed circuit machine cooling and stored (non-potable) water)	Initially dose at 1.1 pints per 100 gallons, then lower to a minimum level equivalent to 10 ppm active ingredient for intermittent treatment use 100 ppm active ingredient and contact time of at least one hour	10 to 100 ppm active ingredient
Industrial Recirculating Water Cooling Towers and Evaporative Condensers	0.56 to 2.2 pints per 1,000 gallons once to twice weekly (more frequently if contamination is heavy)	25 to 100 ppm active ingredient
Metalworking Fluids (diluted fluids)	0.7 to 2.8 gallons per 1,000 gallons	250 to 1,000 ppm active ingredient
Metalworking Fluids (maintenance)	0.28 to 1.1 gallons per 1,000 gallons	100 to 400 ppm active ingredient
Oil and Gas Fluids (for use in terrestrial and off-shore drilling muds and packer fluids)	1.1 to 2.2 pints per 1,000 gallons	50 to 100 ppm active ingredient
Oil and Gas Pipeline and Tank Maintenance (for use in water bottoms in crude and refined hydrocarbon storage tank, piping and transportation systems)	0.56 to 4.5 pints per 1,000 gallons	25 to 200 ppm active ingredient
Oil Process Water (for use in oil and gas well injection and formation waters)	0.56 to 2.2 pints per 100 gallons	25 to 100 ppm active ingredient
Paints, Latex, and Antifoam Emulsion Systems	2.2 to 11.2 pints per 1,000 gallons	100 to 500 ppm active ingredient
Paper Mills — Bulk Paper	1.4 to 4.4 pints per 1,000 gallons	50 to 200 ppm active ingredient
Paper Mill Process Water	0.06 to 1.5 pint per ton of finished paper per paperboard	1 to 25 ppm active ingredient
Starch, Pigment and Extender Slurries	2.2 to 11.2 pints per 1,000 gallons	100 to 500 ppm active ingredient
Water-based agricultural pesticide concentrates	2.2 to 11.2 pints per 1,000 gallons	100 to 500 ppm active ingredient
Water-based printing inks	1.1 to 2.2 pints per 1,000 gallons	50 to 100 ppm active ingredient

### **Handling**

Please refer to the safety data sheet of this product for precise handling instructions.

### **Storage**

Do not contaminate water, food, or feed by storage or disposal. Keep away from heat.

### **Packaging**

**HAJCIMA 30** Microbicide is available in 25 Kg HDPE Carbouys & 200 Kg HDPE Barrels.

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### **Compatible Materials**

#### **Metals**

Stainless Steel

#### **Plastics**

Nylon

Polypropylene

Polythene (XDG33)

PVC (Rigid and Flexible)

Silicone Rubber

Polyethylene

Fiberglass reinforced plastics