

**ROCIMA™ 586 Industrial Microbicide**

EPA Reg. No. 707-315

General

ROCIMA™ 586 microbicide is a broad spectrum preservative for water-based industrial products and raw materials.

The active ingredients of ROCIMA 586 are 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT), 2-Methyl-4-isothiazolin-3-one (MIT) and 2-Bromo-2-nitropropane-1,3-diol (bronopol)

Physical Properties

The following are typical physical properties of ROCIMA 586 Industrial Microbicide; **they are not to be considered as product specifications.**

Appearance Colorless to light yellow liquid
pH 4
Water solubility Completely soluble

Special Features and Benefits

- Broad spectrum activity: controls a wide range of bacteria and fungi
- Fast acting: reduces production down time and delays due to contamination
- Two different modes of biocidal activity: added protection against tough microbes found in manufacturing environments
- Liquid formulation: ease of handling and incorporation
- Enhanced stabilization of CMIT component: improves length of preservation in some systems
- Monovalent stabilization: avoids incompatibilities such as gel formation caused by divalent metal ions
- VOC-Free formulation: does not contribute to VOC content in final formulation
- FDA and BfR clearances: enables global formulations

Applications/ Directions for Use

ROCIMA™ 586 Microbicide is an effective preservative in most aqueous compositions. The concentration required to give protection depends on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which microorganisms can gain access, the species involved, pH, temperature and length of time for which protection is required. Trials at different concentrations are recommended. Suggested use levels of ROCIMA 586 Microbicide are shown below.

Type of Material To Be Preserved	Lbs of ROCIMA™ 586 Microbicide To Use Per 1,000 Lb of Material To Be Protected
Adhesives and Tackifiers	0.5 to 2.25 lb (0.05 to 0.225%)
Aqueous Slurries of Pigments	0.5 to 2.25 lb (0.05 to 0.225%)
Building Materials	0.5 to 2.25 lb (0.05 to 0.225%)
Fountain Solutions	0.5 to 2.25 lb (0.05 to 0.225%)
Industrial Cooling Water and Air Washers	See label for initial dose and subsequent dose levels.
Industrial Water	0.5 to 2.25 lb (0.05 to 0.225%)
Paint and Coatings	0.5 to 2.25 lb (0.05 to 0.225%)
Polymer Latices	0.5 to 4.5 lb (0.05 to 0.45%)
Printing Inks	0.5 to 2.25 lb (0.05 to 0.225%)

ROCIMA 586 is completely miscible with aqueous systems and easily dispersed upon addition.

Regulatory Information

The active ingredients used in the manufacture of ROCIMA 586 comply with the following FDA clearances:

- 21 CFR 175.105, as a preservative of adhesives
- 21 CFR 176.170, as component of paper and paperboard in contact with aqueous and fatty food
- 21 CFR 176.180, as component of paper and paperboard in contact with dry food
- 21 CFR 176.300, slimicides (in manufacture of food contact paper or paperboard)

Storage, Handling and Disposal

Please refer to the Safety Data Sheet of this product for precise handling instructions.

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.

ROCIMA 586 should be stored at room temperature in tightly sealed original containers. Protect from frost and heat. Any supplies which do freeze must be mixed thoroughly after thawing before they can be used without any loss in efficacy.

ROCIMA 586 is stable up to 40°C.

Product Stewardship

Dow Microbial Control encourages its customers to review their applications of Dow Microbial Control products from the standpoint of human health and environmental quality. To help ensure that Dow Microbial Control products are not used in ways for which they are not intended or tested, Dow Microbial Control personnel are willing to assist customers in dealing with ecological and product safety considerations. Contact your representative if you need any assistance or information. When considering the use of any Dow product in a particular application, review the latest Safety Data Sheet and country-specific product label to ensure the intended use is within the scope of approved uses and can be accomplished safely. Before handling any of the products mentioned in the text, obtain available product safety information and take necessary steps to ensure safety of use.

For further information visit our website:
www.dowmicrobialcontrol.com
or call:

United States and Canada:	+1-800-447-4369 (phone)	
	+1-989-832-1560 (phone)	
	+1-989-832-1465 (fax)	
Europe (Dow):	+800-3-694-6367 (phone)	
	+32-3-450-2240 (phone)	
	+32-3-450-2815 (fax)	
Europe (Rohm and Haas):		
France:	+41-81-755-46-54 (phone)	
Germany:	+41-81-755-46-54 (phone)	
Italy:	+41-81-755-46-54 (phone)	
Pacific (Dow):	+800-7776-7776 (phone)	
	+800-7779-7779 (fax)	
	+603-7958-3392 (phone)	
	+603-7958-5598 (fax)	
Pacific (Rohm and Haas):		
Japan:	+81-3-6238-4118 (phone)	
Korean:	+82-2-3489-8901 (phone)	
Singapore:	+65-6796-6217 (phone)	
Thailand:	+662365-7000 (phone)	
New Zealand and Australia:	+61-3-9272-4212 (phone)	
Latin America:	+55-11-5188-9555 (phone)	
	+55-11-5188-9937 (fax)	
India:	+91-22-2760-2504 (phone)	
	+91-22-2760-6899 (fax)	
Other Global Areas:	+1-989-832-1560 (phone)	
	+1-989-832-1465 (fax)	

[†]except Indonesia and Vietnam

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