

MAXXIS[®] BIOCIDES

DESCRIPTION

MAXXIS Biocide is a liquid, single-feed, stabilized bromine biocide for industrial water treatment applications. Product halogen activity is approximately 21% as Br₂, equivalent to approximately 9% as Cl₂.

APPLICATIONS

MAXXIS Biocide is EPA-registered for use as a fungicide, algicide, slimicide and microbiocide in recirculating cooling and process water systems, industrial once-through cooling water systems, and pulp and paper mills. It is also EPA-registered to control biofilm deposits from pumps, pipework, heat exchangers and filters associated with industrial water treatment systems.

This product has been formulated for the unique requirements of high-volume, large-scale industrial use.

SPECIFICATIONS

Total Halogen as Br ₂ , wt%	19.7 – 21.7
Appearance	clear yellow to clear orange liquid
pH	12.4 – 14.0

TYPICAL PHYSICAL PROPERTIES*

Density, lb/gal @ 77 °F (25 °C)	11.7 - 12.9
Density, g/mL @ 77 °F (25 °C)	1.4 - 1.55
Boiling point, °F (°C), approx.	223 (106)
Freezing point, °F (°C), approx.	
Summer formulation	45 (7)
Winter formulation	30 (-1)
Viscosity cSt at 77 °F (25 °C), approx.	5
Solubility in water	complete
Odor	mild

*These properties are typical but do not constitute a specification either in part or as a whole. Specification data is available on request from Sales, Customer Service or Customer Technical Service.

STORAGE INFORMATION

MAXXIS Biocide should be stored away from incompatible materials. To maximize product shelf life, the product should be stored in a cool, dry, well-ventilated area in opaque containers to minimize exposure to light and especially sunlight. As the product ages, activity is gradually lost and nitrogen pressure can build up in the headspace; therefore, the product should be stored in vented containers.

Avoid freezing, excessive heat or exposure to light, especially direct sunlight. Heating of the product above what is needed for freeze protection should be avoided as it can accelerate decomposition. Temperature monitoring is recommended. Precautions should be taken to ensure that the average temperature of the product is maintained below 110 °F (-43 °C). Please refer to the material safety data sheet for additional information.

When properly stored and protected from light, this product retains 95% of its original activity for about three months at ~90 °F (~32 °C).

COMPATIBILITY

Compatible

MAXXIS Biocide, at its end-use concentration, is compatible with commonly used materials of construction in cooling systems. In its neat form, at ambient temperatures, this product is compatible with titanium. Hastelloy® C-276, Monel 400, vinyl tubing, high-density polyethylene, polypropylene, PVC, Viton®, Teflon®, Tygon® tubing, chlorobutyl rubber, Hypalon®, HALAR® ECTFE, Tefzel® ETFE, W.L. Gore GORE-TEX® GR, W.L. Gore UPG Style 800, and Garlock Gylon® Styles 3504, 3500, and 3510.

Incompatible

In its neat form, this product is not compatible with Buna-N rubber, neoprene, silicone rubber, Plasite® 4300 and 3070, nylon, aluminum, brass, carbon steel, copper, stainless steel and other common metals. This product is strongly basic and an oxidizing agent. Contact with organic materials such as alcohols and aldehydes, strong reducing agents, strong oxidizers, acids, and ammonia-containing products should be avoided. Use of incompatible materials can promote the exothermic decomposition of the product. In extreme cases, this could result in vigorous gas formation and over-pressurization of storage containers.

SAFETY AND HANDLING INFORMATION

For specific safety, handling and toxicity information please refer to the current material safety data sheet.

REGULATORY INFORMATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. State registration is required prior to sale and distribution of this product.

U.S. EPA registration number: 3377-79



NORTH AMERICA 4250 Congress Street, Suite 900 • Charlotte, NC 28209 • Tel: +1 980 299 5700
EUROPE Parc Scientifique Einstein, Rue du Bosquet 9, 1348 • Louvain-la-Neuve, Belgium • Tel: +32 10 48 17 11
LATIN AMERICA Av. Brigadeiro Faria Lima, 1461 – sala 131-B • Sao Paulo, SP Brazil, 01451-001 • Tel: +55 11 99655-2288
CHINA Room 3202, No. 757 Mengzi Road, Gopher Center, Huangpu District • Shanghai, PRC. 200023 • Tel: 86.21.6103.8666

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries to ensure the accuracy or reliability of the information. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider all information contained herein only as a guide, and should take precautions that the user considers necessary or prudent to promote a safe work environment, such as considering all applicable health and safety hazards, developing safe work practice procedures and properly instructing employees. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the materials or processes mentioned herein in violation of existing or pending patents.