ALBEMARLE®

STABROM® 909 Biocide

Description

STABROM 909 biocide is a single-feed, stabilized bromine-based biocide for industrial water treatment applications. Product halogen activity is approximately 15% as Br_2, equivalent to approximately 7% Cl_2.

Applications

STABROM 909 biocide is EPA-registered for use as a fungicide, algicide, slimicide and microbiocide in recirculating cooling and process water systems, heat transfer systems (such as hydrostatic sterilizers and retorts, pasteurizers and warmers, and batch and continuous cookers), air washers and industrial scrubbing systems, containerized ponds and decorative fountains, industrial once-through cooling water systems, pulp and paper mills and wastewater systems.

It is also EPA-registered to control biofilm deposits from pumps, pipework, heat exchangers and filters associated with industrial water treatment systems.

Please contact Albemarle Corporation if you have any questions regarding STABROM 909 biocide applications.

Specifications

Total halogen as Br_2, wt%	14.5 - 15.9
Appearance	clear yellow to clear orange liquid
pH	12.4 - 14.0
Specific gravity @ 20 °C/ 20 °C	1.295 - 1.370

Typical Properties

Density, lb/gal @ 77 °F (25 °C)	10.8 - 11.4
Density, g/mL @ 77 °F (25 °C)	1.29 - 1.37
Boiling point, °F (°C), approx.	223 (106)
Freezing point, °F (°C) approx.	32 (0)
Viscosity, cSt @ 77 °F (25 °C)	2
Vapor pressure, mm Hg @ 77 °F (25 °C)	19
Solubility in water	complete
Odor	mild, sweet

Storage Information

STABROM 909 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).

This product retains 95% of its initial activity for at least one year when stored properly at ambient temperatures (<80 °F / <~27 °C), and protected from light.

Compatibility

Compatible

STABROM 909 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: 3377-55

For further information, please refer to the product label, material safety data sheet, and startup guide.

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.

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