

Description Maxguard biocide is a single-feed, ready to use, liquid stabilized bromine biocide for use in oilfield applications.

Application Maxguard biocide is EPA-registered for use as a fungicide, algicide, slimicide and microbiocide in oilfield applications such as oil recovery well fluids, fracturing fluids, secondary oil recovery systems and hydrostatic test waters.

It is also EPA-registered to remove and control biofilm deposits from pumps, pipeworks, heat exchangers and filters associated with oilfield systems.

Specifications

Total Halogen as Br₂, wt%..... 14.5 – 15.9
 Appearance clear yellow to clear orange liquid
 PH 12.4 – 14.0

Typical Physical Properties

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

Compatibility

Compatible
 Maxguard biocide, at its end-use concentration, is compatible with commonly used materials of construction in oilfield applications. In its neat form, at ambient temperatures, this product is compatible with vinyl tubing, high-density polyethylene, polypropylene, PVC, Viton®, Teflon®, Tygon® tubing, chlorobutyl rubber, and Hypalon®.

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, 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.

Storage Information

Maxguard 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. Please refer to material safety data sheet for additional information.

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

Shipping Information

Container Information

Available in totes and drums

Shipping Classifications

Proper shipping name: CORROSIVE LIQUIDS, BASIC, INORGANIC
N.O.S. (Halogenated Complex, Sodium Hydroxide)
Hazard class: 8
ID number: UN3266
Label/placard: corrosive w/number 8
Packaging Group: III

Safety and Handling Information

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

Regulatory Information

Use of this product is regulated by the U.S. EPA and enforced by state agencies. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

U.S. EPA registration number: 3377-55

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. 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 any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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