



SANIBROM[®] 45

Biocide

DESCRIPTION

SANIBROM[®] 45 Biocide is an aqueous solution containing 45% sodium bromide.

SANIBROM[®] 45 Biocide Technical is an EPA-registered manufacturing-use product for formulation/repackaging use as a bactericide, fungicide, algicide, slimicide, and/or molluscicide in commercial and industrial water treatment, and in industrial products that control biofilm deposits. Reformulated or repackaged product must be registered with the EPA.

APPLICATIONS

SANIBROM[®] 45 Biocide is an EPA-registered end-use product for bactericide, fungicide, algicide, slimicide and molluscicide in commercial and industrial water treatment. It controls biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

The above end-use products must be used in conjunction with an oxidizer such as sodium hypochlorite or chlorine gas to produce hypobromous acid.

SPECIFICATIONS

Appearance	clear
Assay, NaBr, wt%	44.0 – 46.0
pH (1:10 dilution)	7.0 – 9.0
Specific gravity, 70 °F / 70 °F	1.470 – 1.510
Color, APHA max.	30

TYPICAL PHYSICAL PROPERTIES*

Appearance	clear
Assay, NaBr, wt%	clear liquid, light yellow to water white
Density, 70 °F (21.1 °C), lb/gal	12.3 – 12.6
Boiling point, °F (°C), approx.	241 (116)
Viscosity, 70 °F (21 °C), cP, approx.	2.4
Flash point	none
Odor	mild
Solubility in water	complete
Freezing point °F (C)	~ 42 (5.6)

*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.

COMPATIBILITY

Materials of Construction

This product is compatible with most non-metallic materials of construction such as fiberglass-reinforced plastic (vinyl ester or polyester FRP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride (CPVC), high density polyethylene, polypropylene, Viton®, Teflon®, natural rubber, chlorobutyl rubber, Hypalon®, HALAR® ECTFE, Tefzel® ETFE, and most high-performance PTFE-based gasket materials such as W.L. Gore GORE-TEX® GR, W.L. Gore UPG Style 800, and Garlock Gylon® Styles 3504 and 3500.

Titanium and high-nickel alloys such as Inconel® 625 & 686, and Hastelloy® C-22 & C-276 also are suitable materials of construction.

Incompatible Materials of Construction

The compatibility of this product with common metals depends on the storage conditions and the environment that the material is in. Aluminum, brass, carbon steel, copper, stainless steel and other common metals generally are not suitable for use. Carbon steel and copper can result in discoloration of the product. Aluminum suffers pitting attack. Dissolved oxygen increases the corrosion rate of stainless steel.

Recommended Materials of Construction for Storage Tanks

Vinyl Ester FRP such as Ashland Derakane® 411 or 470 is suitable for use, as is bisphenol A fumarate polyester FRP such as Reichhold Atlac® 6694.

Recommended Materials of Construction for Piping and Valves

For piping, an adhesive socket FRP system such as Reinforced Plastics Systems P150 series or Smith Fibercast® CL-2030 series is suitable. A flat-faced FRP ball valve such as the Nil-Cor® 310 series is a good choice for FRP piping. PP-lined steel also is suitable. For low-pressure lines (<5 psig) such as overflows and drain lines, solid PVC or CPVC piping can be used, but should be safeguarded from mechanical damage.

SAFETY AND HANDLING INFORMATION

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

CHEMICAL REGISTRATION NUMBERS

CAS: 7647-15-6
EINECS: 231-599-9
MITI: 1-113
KECL: KE-31368

REGULATORY INFORMATION

It is a violation of Federal Law to use this product in a manner inconsistent with their labeling.

SANIBROM 45 Biocide Technical:
SANIBROM 45 Biocide:

EPA Registration Number
3377-28
3377-29

Learn more about SANIBROM at www.albemarle.com

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