

PHMB

Cationic biguanide polymer biocide for industrial formulation and process applications.

CAS No. 27083-27-8 / 32289-58-0	EC / EINECS Polymeric substance
------------------------------------	------------------------------------

Product Information

PHMB is supplied as colorless to pale yellow transparent liquid. Grade: 20% solution (solids 19–21%).

Specifications

Parameter	Specification
Appearance	Colorless to pale yellow transparent liquid
Solubility in Water	Completely soluble
pH (25 °C)	4.0 - 5.0
Assay (Solid %)	19 - 21%
Density (20 °C)	1.039 - 1.046
Odor	Odorless
Absorbance E 1%/1cm at 238 nm	≥ 400
Ratio of Absorbance (237 nm / 222 nm)	1.2 - 1.6

Typical Properties

Property	Typical Value
Synonym	Polyhexamethylene biguanide hydrochloride
Ionic Character	Cationic
UV Absorbance	E 1%/1cm ≥ 400 at 238 nm

Applications

Industrial water microbial control: Used as a component in industrial water microbial control. Evaluate compatibility and process requirements before use.

Surface cleaning and disinfection formulations: Used as a component in surface cleaning and disinfection formulations. Evaluate compatibility and process requirements before use.

Leather and paper preservation: Used as a component in leather and paper preservation. Evaluate compatibility and process requirements before use.

Packaging / Storage

Item	Information
Packaging	25 kg/200 kg PE drum or 1000 kg IBC.
Storage	Store sealed in original packaging in a cool, dry and well-ventilated area. Protect from contamination.
Shelf life	1 year in unopened original packaging
Handling	Use local exhaust ventilation where needed. Wear chemical-resistant gloves and eye protection; avoid splashes and aerosol formation. Follow the product SDS for additional controls.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com