Xytu® BIT 20
Benzisothiazolinone (BIT) Preservative

Introduction

BIT 20 is a broad-spectrum preservative that protects waterborne industrial products against contamination by bacteria, yeasts and molds. The product is an aqueous dipropylene glycol formulation containing 20% 1,2-benzisothiazolin-3-one.

Applications

BIT 20 is widely used in industrial waterborne products, including:

- Synthetic polymer emulsions
- Latex paints
- Waterborne adhesives
- Household products
- Printing inks
- Paper coating materials
- Metal cutting fluids
- Agricultural insecticide dispersions
- Waterborne mineral slurries and pigment dispersions
- Tape adhesive compounds

Physical Properties

Composition	1,2-Benzisothiazolin-3-one in a dipropylene glycol/water solution
Content	20% w/w
Physical appearance	Yellow to light brown liquid
Viscosity at 25 °C	100-400 mPa·s
pH (10% solution), 25 °C	12.0-13.2
Boiling point	Approximately 100 °C
Flash point (°C)	Boils without a flash point
Density at 25 °C	1.14 g/mL

Compatibility: effective throughout the pH range of 4-12. The stability of the active ingredient is not affected by amines. Incompatible with certain oxidizing and reducing agents, such as peroxyacid salts and sulfites.

Recommended Dosage

Product	Concentration % (w/w)
Synthetic polymer emulsions	0.05-0.15
Latex paints	0.05-0.15
Waterborne adhesives	0.05-0.25
Tape adhesive compounds	0.05-0.25
Printing inks	0.05-0.15
Paper coating materials	0.05-0.15
Metal cutting fluids	0.05-0.18
Agricultural insecticide products	0.05-0.25
Waterborne mineral slurries and pigment dispersions	0.05-0.15
Household products, including laundry liquids, dishwashing liquids, floor and wall cleaning liquids, surface cleaning products, window cleaners, floor polishes and liquid waxes, and shoe polish	0.05-0.15

Packaging and Storage

25 kg/drum. Store BIT 20 indoors at room temperature in a well-ventilated area. Do not use unlined metal containers to hold BIT 20. The product remains stable for at least one year at normal storage temperatures.