PRODUCT TECHNICAL DATA

Rapid-Action Industrial Biocide D20

Product Description

D20 is a specialty biocide developed for recovering deteriorated materials and treating process water. It combines rapid microbial control with rapid self-degradation. Optimum control is normally achieved within a few minutes to half an hour, after which the product decomposes quickly, minimizing adverse effects on the physical and chemical properties of the treated system.

Typical Applications

- Recovery of deteriorated industrial products, with performance close to restoring the original condition.
- Short-term protection of polymer emulsions, slurries, adhesives, caulking compounds and emulsified waxes.
- Control of microbial growth in process water, cooling towers and heat exchangers.

Product Advantages

- Rapid antimicrobial action without production delays.
- Low use level and high cost-effectiveness.
- Broad-spectrum activity against a range of bacteria and fungi.
- Antimicrobial rate is not affected by pH.
- Excellent compatibility, with no adverse effect on finished products when used as directed.
- Can be used with an in-can preservative to reduce the probability of preservation failure.
- Supports good factory hygiene and raw-material safety.

Typical Properties

Typical properties are not product specifications.

Property	Typical value
Appearance	Colorless to brown clear liquid
Density (25°C)	1.2 g/mL
Active content	19.5%
Odor	Slight
Solubility	Readily soluble in water; aqueous solutions above 5% may crystallize with changes in temperature.
Stability	Hydrolyzes under neutral to alkaline conditions.

Method of Use and Dosage

D20 is preferably introduced with a metering pump selected for the system size and the required biocide concentration. The recommended use concentration is 0.05%-0.5%, depending on the product and the environmental conditions of use. Conduct a compatibility test before use.

Compatibility and Preservation Strategy

D20 is normally compatible with most raw materials used in microbiologically sensitive formulations. Because formulations, raw materials and production conditions vary, compatibility should be verified before use. D20 provides short-term protection only. For long-term storage, the source technical sheet recommends use in combination with Xinyi PV15 in-can preservative; the final preservation program should be validated in the intended system.

Packaging, Shelf Life and Storage

Packaging: 25 kg and 200 kg plastic drums or IBC totes. Shelf life: 9 months when stored at approximately 20°C. Avoid extreme temperatures. Store away from light at below 40°C.

Handling and Safety

Operators should have the technical knowledge and training required for handling industrial chemicals. Use only with adequate ventilation. Avoid contact with eyes and skin. Wear protective goggles, gloves and clothing as required. In case of accidental eye or skin contact, rinse immediately with plenty of warm water and seek medical attention if necessary. Read the current SDS before use; it contains further information on safety, labelling and toxicity.