

US-667B

Anti-microbial Additive Blend

US-667B is an antimicrobial blend designed specifically for polyurethane foam systems. 2-Octyl-4-isothiazolin-3-one (OIT, CAS# 26530-20-1) is common in the plastics industry and offers effective control of a wide range of bacterial and fungal organisms. Zinc pyrithione (CAS # 13463-41-7) is a metal complex which also offers a broad range of bacteriostatic and fungistatic performance. In addition to commonly being used in the plastics industry, it is well known for its application in anti-dandruff shampoos.

The blend of the two active components in US-667B is optimized to provide an excellent balance of antimicrobial efficacy, long term durability in the foam article, and processability in foam formulations. The polyether polyol carrier is also selected to assist with the foam processability. Polyurethane foam formulators using US-667B do not experience the same level of difficulty in controlling air flow and preventing shrinkage as they would using only zinc pyrithione to achieve the same level of antimicrobial performance.

Chemical and Physical Properties

Property	Value	Unit
2-Octyl-4-isothiazolin-3-one (OIT)	41.5	wt%
Zinc Pyrithione	7.5	wt%
Specific Gravity @ 25°C	1.0	
Viscosity @ 25°C	200	cP
Flash Point, COC	>100°C	

Additional Information

US-667B is hygroscopic and can absorb atmospheric moisture. This should be considered in its storage and handling, with the use of dry air or nitrogen being suggested when possible. It should not come into contact with strong oxidizers. It is corrosive in its pure form, therefore direct skin contact should be avoided and rubber gloves used. Contact with the eyes, ingestion, or inhalation also need to be avoided. Please see the product Safety Data Sheet (SDS) for further details. The product is toxic to fish, therefore discharge to sewer systems or waterways needs to be avoided.

Contact Information

Email: info@usci.net
Phone: +1 856.282.4506
Address: Urethane Sciences | 121 Cross Keys Road, Building E | Berlin, NJ 08009