

# FASCAT® 2003 Catalyst

## Stannous Octoate, Stannous 2-Ethylhexanoate

**CAS Registry Number:** 301-10-0

### Description

FASCAT 2003 catalyst, stannous octoate, stannous 2-ethylhexanoate, is a pale yellow liquid. This product is available in 55 lb (25kg) pails and 440 lb (200kg) drums.

### Applications

FASCAT 2003 catalyst is used in the production of oleochemicals. It is used to catalyze silanol condensation reactions, the primary segment being room temperature vulcanized (RTV) silicone rubbers. FASCAT 2003 catalyst is used extensively for producing urethanes from the reaction of isocyanates and polyols. FASCAT 2003 catalyst absorbed on silica is used in urethane powder coatings for exterior applications. FASCAT 2003 can be used as a gelling catalyst in the production of flexible slabstock polyurethane foam.

### Product Specifications

Properties	Specifications
Formula	Sn(C <sub>8</sub> H <sub>15</sub> O <sub>2</sub> ) <sub>2</sub>
% Sn	28.0
Molecular Weight	405.1
Specific Gravity (@20°C)	1.25
Viscosity (@25°C)	250 cp

### Solubility

Soluble in most organic solvents and disperses quickly in ester systems.

### Product Features and Benefits

FASCAT 2003 catalyst is a neutral and non-corrosive liquid catalyst, used to increase the rate of resin formation and to increase the crosslinking speed in various coating applications. It is used for the formation of esters from acids and alcohols where removal of the catalyst is desirable after completion of the reaction. The final ester products will have low tin content. FASCAT 2003 catalyst does not require extensive or rigorous handling conditions and can be charged at any point during the reaction. FASCAT 2003 catalyst should be handled in an inert atmosphere whenever possible to avoid oxidation to the stannic (IV) state. FASCAT 2003 in ester systems minimizes the dehydration of alcohols and formation of odorous, color-forming aldehydes, ethers, and ketones, which are commonly formed by-products with the use of acid catalysts. FASCAT 2003 has FDA sanctions as a catalyst or cross linking agent for the cure of epoxy resins in resinous or polymeric coatings in food packaging – 21 CFR Sec. 175.300(b)(3)(viii).

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