

FASCAT® 9102 Catalyst

Butyltin Tris-2-Ethylhexanoate

CAS Registry Number: 23850-94-4

Description

FASCAT 9102 catalyst, butyltin tris-2-ethylhexanoate, is a pale yellow liquid. This product is available in 44 lb (20kg) pails and 440 lb (200kg) drums.

Applications

FASCAT 9102 catalyst is used in the synthesis of saturated polyester resins for powder coatings and coil coatings. It is also used in the production of aromatic polyester polyols for flexible and rigid PU foam applications and in ring opening polymerization for polymer production. FASCAT 9102 can be used in the preparation of plasticizers, including dioctyl phthalate, and can also be used in transesterification reactions, with good catalytic activity at temperatures ranging from 80°C to 150°C, depending on the system.

Product Specifications

Properties	Specifications
Formula	BuSn(OOC ₈ H ₁₅) ₃
% Sn	19.6
Molecular Weight	605.0
Density (@25°C) g/cm ³	1.13

Solubility

Insoluble in water and most organics. Dissolves in strong alkaline and mineral acid solutions.

Product Features

FASCAT 9102 is the FDA food grade version of FASCAT 4102. FASCAT 9102 catalyst is a hydrolytically stable, liquid catalyst used primarily to catalyze esterification and polycondensation reactions at temperatures between 210 and 240°C. FASCAT 9102 catalyst does not require removal and becomes incorporated into the final product without affecting the quality of the product. It can be used at temperatures up to 250°C. FASCAT 9102 catalyst is neutral and non-corrosive.

Benefits

FASCAT 9102 catalyst can significantly shorten esterification cycle times compared to uncatalyzed systems, minimizes side reactions such as ether formation from polyhydric alcohols, and is easily handled and readily dispersed in reaction mixtures. FASCAT 9102 catalyst can be charged up front with other reactants, and requires no special handling other than avoiding excessive exposure to moisture. FASCAT 9102 catalyst does not require neutralization or filtration at the end of production. FASCAT 9102 is the food grade version of FASCAT 4102 and it can be used as a catalyst in the production of cross-linked polyester resins for food contact articles intended for repeated use under 21 CFR Sec. 177.2420(b)3. For use as a catalyst in the polycondensation reaction at levels not to exceed 0.2% of the polyester resin. FASCAT 9102 can be used as a catalyst in the production of polyester resins defined in (b)(vii) of this section. Provided that the maximum amount of catalyst does not exceed 0.2 percent of the polyester resin under 21 CFR Sec. 175.300.

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