

FASCAT® 4102 Catalyst

Butyltin Tris-2-Ethylhexanoate

CAS Registry Number: 23850-94-4

Description

FASCAT 4102 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 4102 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 4102 can be used in the preparation of plasticizers, including dioctyl phthalate, and in transesterification reactions, with good catalytic activity at temperatures ranging from 80C to 150C, 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

Soluble in most organic solvents. Insoluble in water.

Product Features

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

Benefits

FASCAT 4102 catalyst can significantly shorten esterification cycle times compared to uncatalyzed systems. FASCAT 4102 catalyst minimizes side reactions such as ether formation from polyhydric alcohols. FASCAT 4102 catalyst is easily handled and readily dispersed in reaction mixtures. It can be charged up front with other reactants, and requires no special handling other than avoiding excessive exposure to moisture. FASCAT 4102 catalyst does not require neutralization or filtration at the end of production.

In US

PMC Organometallics, Inc.
The PMC Group Building
1288 Route 73, Suite 401
Mount Laurel, NJ 08054

Customer Service
1.855.638.2549
(1.855.METALIX)
Fax 1.856.638.2157

In Europe

PMC Vlissingen B.V.
C/o PMC OUVRIE
44 rue Albert Einstein
62220 CARVIN
FRANCE

Customer Service
33(0)3.91.83.71.56
Fax 33(0)3.91.83.71.92

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