

FASCAT® 4101 Catalyst

Butylchlorotin Dihydroxide

CAS Registry Number: 13355-96-9

Description

FASCAT 4101 catalyst, butylchlorotin dihydroxide, is an amorphous white solid. This product is available in 55 lb (25kg) pails and 220 lb (100kg) drums.

Applications

FASCAT 4101 catalyst is used in the synthesis of saturated polyester resins for powder coatings. It is also used in the production of unsaturated polyester resins for gel coat, sheet molding, and cast molding applications, in transesterification reactions run at temperatures between 140-180°C to produce esters and anti-oxidants, and in the production of PBT engineering resins for the automotive and construction markets.

Product Specifications

Properties	Specifications
Formula	BuSnCl(OH) ₂
% Sn	48.5
Formula Weight	245.3
Specific Gravity	1.26
Melting Point	Decomposes without Melting

Solubility

Soluble in solvents either with reaction or complex formation. Soluble in dilute NaOH, warm HNO₃. Insoluble in nonpolar solvents.

Product Features

FASCAT 4101 catalyst is a solid, hydrolytically stable catalyst that is active at low loadings. It is a versatile catalyst that can be used in esterification, polycondensation, and transesterification reactions. FASCAT 4101 catalyst begins to solubilize in carboxylic acid at 80°C during the reaction and becomes incorporated into the final product without affecting the quality of the product. It can be used at temperatures up to 250°C.

Benefits

FASCAT 4101 catalyst can significantly shorten esterification and transesterification cycle time compared to uncatalyzed systems. It offers energy savings due to lower reaction temperatures, as well as more efficient use of equipment. FASCAT 4101 catalyst minimizes side reactions such as dehydration and oxidative degradation of polyhydric alcohols, especially secondary alcohols. It can be charged up front with other reactants, and requires no special handling other than avoiding excessive exposure to moisture. FASCAT 4101 catalyst does not require neutralization or filtration at the end of production.

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