

FASCAT[®] 4101 CATALYST

PRODUCT INFORMATION

DESCRIPTION

Arkema Inc. FASCAT 4101 catalyst, butylchlorotin dihydroxide [CAS #13355-96-9], is an amorphous white solid with the following properties:



TYPICAL PROPERTIES

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 HNO ₃ . Insoluble in nonpolar solvents.

PRODUCT FEATURES

FASCAT 4101 catalyst is a solid, hydrolytically stable catalyst that is active at low loadings.

FASCAT 4101 catalyst 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.

FASCAT 4101 catalyst 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, and provide energy savings with lower reaction temperatures.

FASCAT 4101 catalyst minimizes side reactions such as dehydration and oxidative degradation of

polyhydric alcohols, especially secondary alcohols.

FASCAT 4101 catalyst 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.

RECOMMENDED USES

FASCAT 4101 catalyst is used in the synthesis of saturated polyester resins for powder coatings.

FASCAT 4101 catalyst is used in the production of unsaturated polyester resins for gel coat, sheet molding and cast molding applications.

FASCAT 4101 catalyst is used in transesterification reactions run at temperatures between 140-180°C to produce esters and anti-oxidants.

FASCAT 4101 catalyst is used in the production of PBT engineering resins for the automotive and construction markets.

PACKAGING

FASCAT 4101 catalyst is available in 55 lb (25 kg) pails and 220 lb (100 kg) drums.

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