

PowerCat™ DBTK Tin Catalyst

Introduction

PowerCat™ DBTK is a high-activity organotin catalyst based on dibutyltin bis(acetylacetonate). It is widely used as a catalyst for moisture-curing silane-terminated polymers (STP/MS Polymers), RTV silicone systems, silane condensation reactions and polyurethane applications.

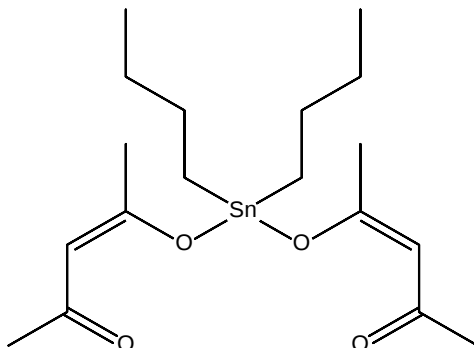
Compared with conventional dibutyltin dilaurate (DBTDL), PowerCat™ DBTK provides faster curing performance, improved storage stability and lower odor, making it particularly suitable for one-component moisture-curing sealants and adhesives.

PowerCat™ DBTK is compatible with most organic solvents but is sensitive to moisture and should be handled under dry conditions.

Chemical Name

Dibutyltin Bis(acetylacetonate)

Chemical Structure



Physical Properties

CAS No.	22673-19-4
EINECS No.	245-152-0
Formula	C ₁₆ H ₃₄ O ₄ Sn
Molecular Weight	431.16
Appearance	Clear yellow liquid
Tin Content	26.0 - 28.0 %
Density (25°C)	1.20 - 1.30 g/cm ³
Viscosity (30°C) mPa·s	10 - 50

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These values are typical and are not intended for use as specifications.

Application

PowerCat™ DBTK is a high-activity organotin catalyst recommended for moisture-curing silane-terminated polymers (STP/MS Polymers), RTV silicone sealants and rubber, silane condensation reactions, polyurethane coatings, adhesives and sealants, as well as other moisture-curing polymer systems.

PowerCat™ DBTK provides fast curing performance, excellent storage stability and low odor. It is particularly suitable for one-component moisture-curing systems requiring rapid cure development and efficient silane crosslinking. The catalyst exhibits good compatibility with common organic solvents and can be used in both one-component and two-component formulations. Compared with conventional dibutyltin dilaurate (DBTDL), PowerCat™ DBTK offers improved curing efficiency and enhanced formulation stability.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

Store in a cool, dry, and well-ventilated warehouse. Keep containers tightly closed and away from moisture, heat, and ignition sources. Shelf life is 12 months from the date of production when stored in original unopened packaging.

For more detailed information please refer to the material safety data sheet.

Packing

PowerCat™ DOTO is supplied in 25 kg pails and 200Kg drums.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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We disclaim liability for any incidental or consequential damages.